Disclaimer: Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. § 794d), as amended in 1998, requires that the information in federal documents be accessible to individuals with disabilities. CHIPS for America, U.S. Department of Commerce, has made every effort to ensure that the information in the Micron Semiconductor Manufacturing Project Final Environmental Impact Statement is accessible; however, some Appendix elements may not be fully accessible. Individuals with disabilities are encouraged to contact David Frenkel, Environmental Division Director by phone at (240) 204-1960 or by email at david.frenkel@chips.gov for access to the information contained in this document.

APPENDIX E GEOLOGY, SOILS, AND TOPOGRAPHY

Appendix E-1 Geology, Soils, And Topography Methodology

E-1 Geology, Soils, and Topography Methodology

This section defines the study area for Geology, Soils, and Topography and explains the methodology and information sources used to describe the affected environment. Figure E-1 on the next page shows the study area for geology, soils, and topography. The study area includes the proposed 1,377-acre Micron Campus, 38-acre Rail Spur Site, and 31-acre Childcare Site.

The study area also includes the proposed Connected Actions, including new structures at the National Grid Clay Substation, the OCWA Lake Ontario Water Treatment Plant, the OCWA Terminal Campus, and the proposed new IWWTP at the Oak Orchard site, as well as linear improvements, including construction of electrical transmission lines, a natural gas line, water transmission lines, and an industrial wastewater conveyance. The Connected Actions have been assessed as part of the study area, taking into consideration the surrounding geology, topographic information available online, and nearby unique geological features.

Finally, the Connected Actions would include extensions of existing fiber optic lines along NYS Route 31 and Caughdenoy Road to the Micron Campus built along cable routes and directly buried or pulled through existing conduits to avoid further ground disturbance. The extensions of the existing fiber optic lines are not considered in the study area because they would be buried and stabilized underground, avoiding any disturbance to surrounding geology and soils.

The methodology for Section 3.2 (Geology, Soils, and Topography) relies on a combination of an in-depth desktop analysis as well as site-specific data and geotechnical analysis. The geotechnical analyses were prepared by CME and Langan, and details boring investigations completed by CME in the Spring and Fall of 2023 as well as the Spring of 2024, and additional investigations completed by Langan in Spring 2025(Appendix E-4).

The first geotechnical report details findings from boring investigations from Phase 1 and Phase 2 explorations conducted by CME in May and June 2023, which included test borings, cone penetration testing, groundwater monitoring wells, test pits, and laboratory testing for the proposed Micron Campus site. The findings from these investigations revealed shallow depth to groundwater as well as soils with high water content. The second geotechnical report details investigations carried out in a Spring 2024 Phase 3 exploration. This investigation included test borings, auger probes, groundwater monitoring wells, infiltration testing, test pits, field soil resistivity testing, and laboratory testing. The investigation revealed similar findings to the first report, as well as compressible soils present at the site. A third geotechnical report details a subsurface investigation which was conducted at the proposed Childcare Site in September 2023. This investigation included test borings, test pits, and infiltration testing. The results of this investigation revealed compressible soils at the site. The fourth geotechnical report details a subsurface investigation which was conducted for Phase 1 and 2 of the WPCP between April and May 2025. This investigation included test borings, cone penetration tests, test pits, crosshole seismic logging, thermal resistivity tests, electrical resistivity tests, and seismic refraction surveys. The results of this investigation are consistent with previous geotechnical data.

Site-specific analysis relied on field sampling data, topographic surveys, and soil borings (including depth to groundwater), the Phase 1A Archaeological Survey prepared by AKRF, Inc., and information from publicly available sources, including U.S. Geological Survey maps for the Finger Lakes Region (bedrock and surficial geologic maps) and the U.S. Department of

Agriculture Natural Resources Conservation Service Web Soil Survey database, the Soil Survey Geographic (SSURGO) database, and Official Soil Series Descriptions (Appendix E-2).

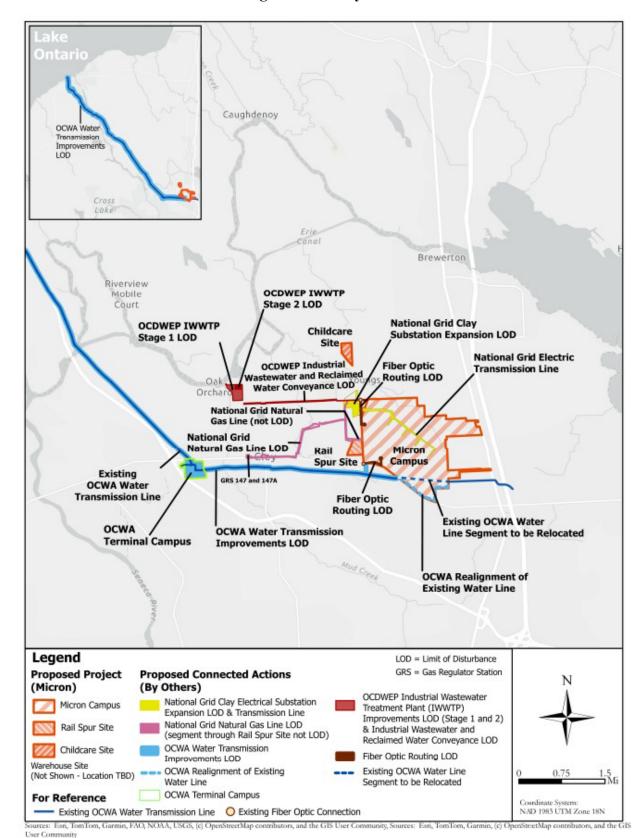


Figure E-1 Study Area

Appendix E-2 Soil Type Descriptions

E-2 Soil Type Descriptions

Niagara Silt Loam (NgA)

These very deep, somewhat poorly drained soils formed in silty glacio-lacustrine deposits. The soils occur in level to slightly concave areas on lake plains and in valleys. The surface layer is very dark grayish brown, 5 inches thick. The subsoil is dark grayish brown, moderately blocky in structure, and 17 inches thick. The substratum is dark grayish brown, very fine sandy loam and is 41 inches thick.

This soil map unit is found throughout the Proposed Project area but is mostly concentrated in the central and northern sections of the proposed Micron Campus. Niagara Silt Loam covers 14.9 acres of the Rail Spur Site and a small section in the northeastern corner of the Childcare Site. In total, it covers 522 acres of the Proposed Project area.

Collamer Silt Loam (ChA, ChB)

These deep to very deep, moderately well drained, nearly level soils formed in silty glacio-lacustrine sediments. They occur on lake plains and till plains that have a thick mantle of lake sediments. The surface layer is dark grayish brown silt loam, 12 inches thick. The subsoil is 21 inches thick. The upper 6 inches of the subsoil is brown and dark yellowish brown, moderately coarse silt loam; the deeper portion of the subsoil is brown, moderate medium and coarse, 12 inches thick. The substratum is yellowish brown, amorphous "massive" silt loam and ranges from 33 to 72 inches thick.

This soil map unit is found throughout the Proposed Project area, concentrated in the central and southern portions of the proposed Micron Campus, and covering approximately 99.4 percent of the soil at the proposed Childcare Site. Collamer Silt Loam (ChA and ChB) covers approximately 433 acres of the proposed Micron Campus and 29.8 acres of the proposed Childcare Site, or 462.8 acres of the Proposed Project area.

Canandaigua Mucky Silt Loam (Cd)

These very deep, poorly to very poorly drained hydric soils formed in silty glacio-lacustrine sediments. They occur on lowland lake plains and in depressional areas on glaciated uplands. The surface layer is very dark gray, moderately fine to very fine silt loam, and is 8 inches thick. The subsoil is light brownish gray to gray, very coarse to plate-like in structure and is 22 inches thick. The substratum is gray and light brown, very fine to massive silt and sandy loam and is 42 inches thick. This soil map unit is found in pockets throughout the Proposed Project area. In total, it covers 82.4 acres of the Proposed Project area.

Palms Muck (Pb)

These very deep, very poorly drained hydric soils formed in herbaceous organic materials. They occur in the underlying loamy deposits in closed depressions on moraines, lake plains, till plains, outwash plains, and hillside seep areas, and on backswamps of flood plains. The surface layer is black, broken face and rubbed muck, slightly sticky, and is 14 inches thick. The subsoil is black, broken face and rubbed muck, slightly sticky, and is 21 inches thick. The substratum is gray and dark yellowish brown, massive clay loam and is 45 inches thick. This soil map unit is

concentrated in the northern central section of the proposed Micron Campus. In total, it covers 73.5 acres of the Proposed Project area.

Hilton Loam (H1A, H1B)

These very deep, moderately well drained soils formed in Wisconsin age till derived from sandstone and limestone. They occur as nearly level to sloping soils on till plains and glaciated dissected plateaus. The surface layer is dark grayish brown and light brownish gray granular loam and is 9 inches thick. The subsoil is reddish brown, gravelly, moderately blocky loam and is 19 inches thick. The substratum is reddish brown to brown, gravelly, moderately plate-like to massive in structure and is 36 inches thick. This soil map unit is found in pockets throughout the Proposed Project area. In total, it covers 73.3 acres of the Proposed Project area.

Cut and Fill (CFL)

This soil type is classified by construction material brought into the area for the purpose of site grading. According to the NYSDEC regulations for fill, these materials consist of soil, sand, gravel, or rock as well as non-putrescible non-soil constituents.

Scriba Gravelly Fine Sandy Loam (ScB, ScC)

These very deep, somewhat poorly drained hydric soils are derived from loamy glacial till. The slope of these soils typically ranges from 0 to 15 percent. The surface layer is very dark grayish brown gravelly loam, up to 9 inches thick. The subsoil is a grayish brown gravelly fine sandy loam, 9 to 13 inches thick. The substratum is brown, very gravelly fine sandy loam 48 to 72 inches thick. This soil map unit is found at the Lake Ontario Water Treatment Plant. It covers approximately 16.5 acres of the Connected Action sites.

Urban Land (Ub)

Urban land, like cut and fill is a soil classification used to describe the soils beneath highly urbanized areas. These areas consist of a mix of concrete, asphalt, cut and fill materials, and a mix of local soil types. Approximately 14.4 acres of the Connected Action sites comprise this soil map unit type.

Ira Gravelly Fine Sandy Loam (IrB, IrC)

These coarse to loamy, mixed, somewhat poorly drained hydric soils are from the mesic family of the Typic Fragiochrepts. The surface layer is a dark grayish brown, fine, gravelly sandy loam, up to 8 inches thick. The substratum is a yellowish brown fine sandy loam with a blocky structure, about 13 inches thick. The substratum is a grayish brown gravelly fine sandy loam which is slightly alkaline, and approximately 50 inches thick. This soil map unit is found at the OCWA Terminal Campus. It covers approximately 9.7 acres of the Connected Action sites.

References

- New York State Department of Environmental Conservation (NYSDEC). (2023). *Parts 360-366 and 369, Solid Waste Management*. https://dec.ny.gov/sites/default/files/2024-10/part360fulltextadopt.pdf. Accessed December 5, 2024.
- Soil Survey Staff, Natural Resources Conservation Service (NRCS), United States Department of Agriculture (USDA). Official Soil Series Descriptions. Available online. Accessed October 16, 2023.
- Soil Survey Staff, Natural Resources Conservation Service (NRCS), United States Department of Agriculture (USDA). Web Soil Survey. Available online. Accessed October 16, 2023.

Appendix E-3 Topographical Figures

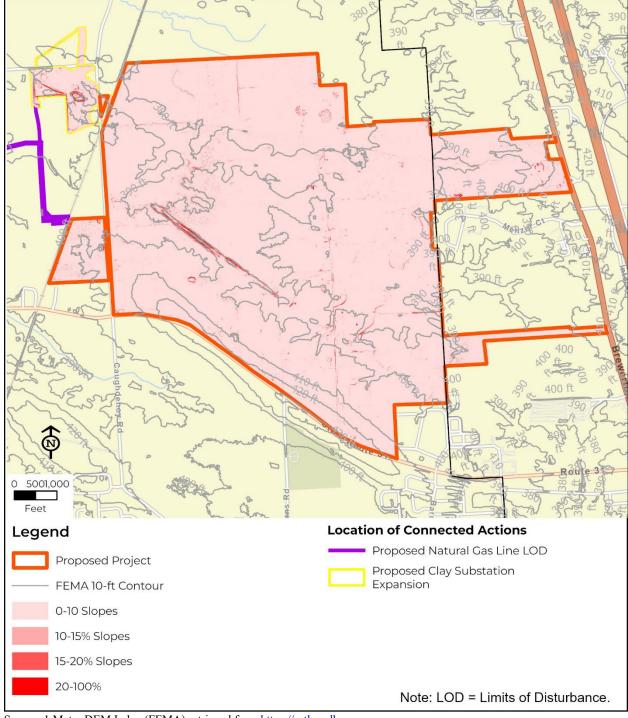


Figure E-2 Topography at Proposed Micron Campus

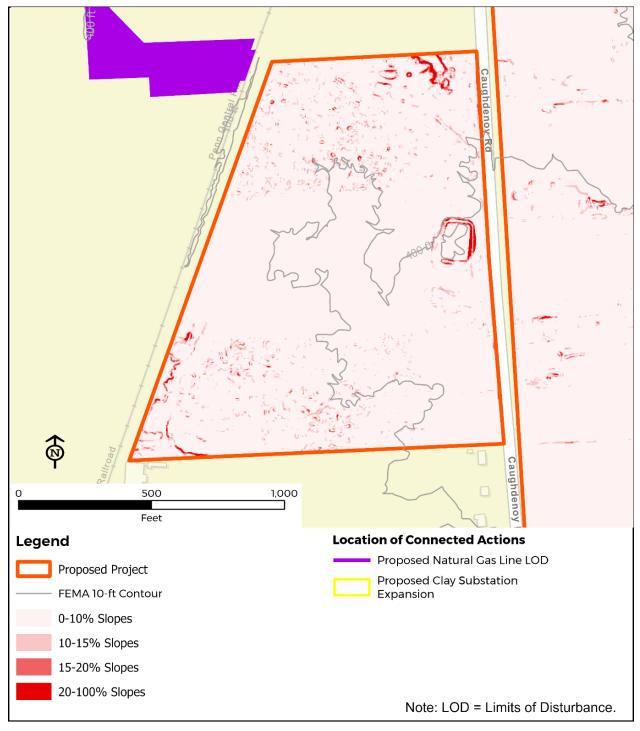


Figure E-3 Topography at Proposed Rail Spur Site

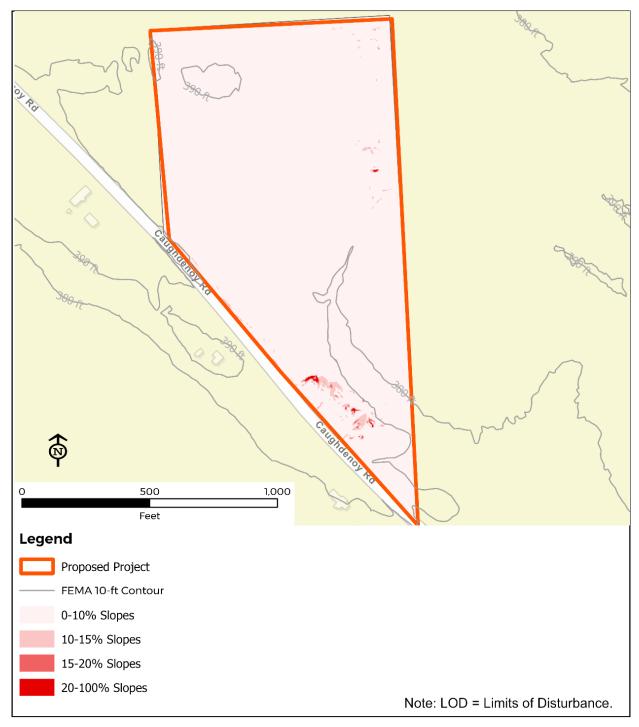


Figure E-4 Topography at Proposed Childcare Site

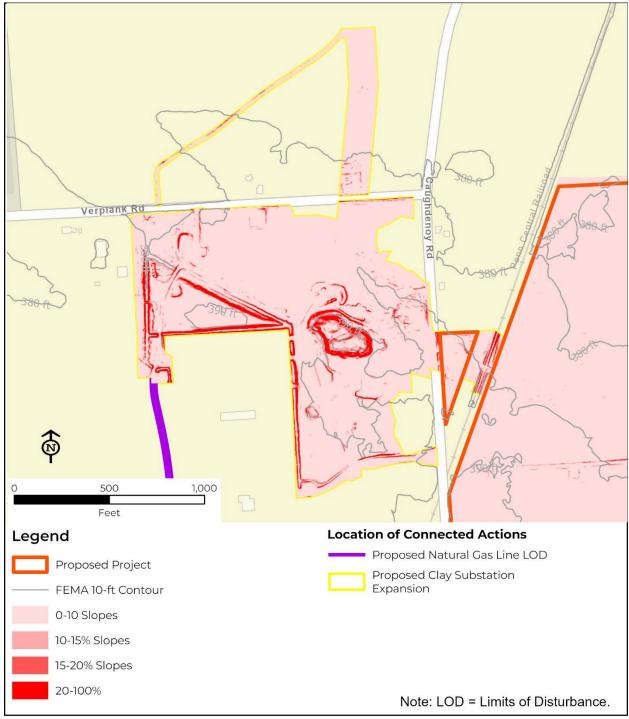


Figure E-5 Topography at Proposed Clay Substation Expansion Area

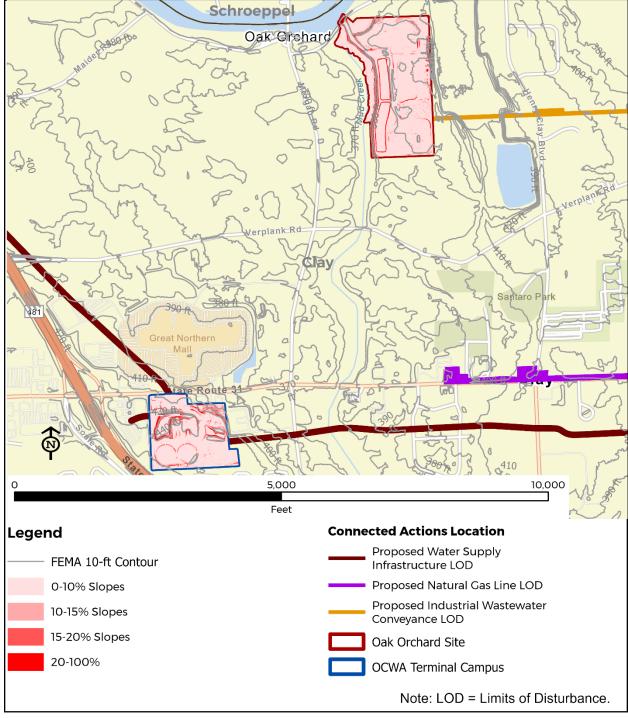


Figure E-6 Topography at Oak Orchard Site and OCWA Terminal Campus

Appendix E-4 Geotechnical Reports



6035 Corporate Drive East Syracuse, New York 13057 (315) 701-0522 (315) 701-0526 (Fax)

www.cmeassociates.com

December 08, 2023

Ramboll (Client) 94 New Karner Road Albany, New York Phone: 315.420.8439

Attn: Andy Philips, Sr. Project Manager

Andy.Philips@Ramboll.com

Re: Geotechnical Data Report - Second Phase

Micron Campus Clay, New York

CME Report No. 28062B-03-1223

Page 1 of 4

1.0 INTRODUCTION

CME Associates, Inc. (CME) was retained by Ramboll (Client) to provide subsurface exploration and geotechnical services for the subject project. In September/October 2023, CME conducted a limited subsurface exploration at the subject project site as part of the second phase exploration program.

The Scope of Basic Services and this report have been provided pursuant to CME Proposal/Agreement No.: 05.7126, Addendum 3, dated 04/07/2023, and authorized by Client via a Purchase Order (Ramboll PO # 1950006347, dated 04/14/2023). This report provides a summary of the second phase exploration activities conducted at the subject project site.

Please note, the first phase exploration at this site was conducted by CME in May/June 2023 and CME's deliverables consisted of the previously issued *Geotechnical Data Report - Revision 1*, labeled CME Report Number: 28062B-01-0523R1, dated 06/20/2023.

2.0 EXPLORATION METHODOLOGY

2.1 Exploration Layout and Utility Clearance

The exploration locations were selected by the Client and staked by Thew Associates (Thew). Following the field stakeout, CME contacted UDig NY to clear public utilities at the exploration locations. Private utilities at the exploration locations were cleared by Thew. No utility conflicts were noted at the exploration locations.

The attached *CME Exploration Location Plan* depicts the approximate locations of the explorations. Please note, said plan shows explorations completed during the first and second phase explorations. Elevation at grade at the exploration locations, along with Northing and Easting coordinates, was provided by Thew. Please see the attached *Elevation and Coordinates Tables* prepared using the survey data provided by Thew.

CME Report No.: 28062B-03-1223

Page 2 of 4



2.2 Test Borings

A total of 119 Test Borings (in addition to the first phase 60 Test Borings¹) were completed by CME and subcontractors to CME. The Test Borings were advanced using either a Central Mine Equipment Model 550X (ATV-mounted), Model 55 (track-mounted), Model 45 (track-mounted) or Model LC 55 (track-mounted) rotary exploration drill rig, equipped with 3-½" I.D. hollow stem augers. Soil sampling was conducted using a 140-pound hammer dropping through 30 inches to drive a 2" O.D. split barrel sampler in general conformance with ASTM Standard Practice D1586. Rock coring was performed in general conformance with ASTM Standard Practice D2113. Undisturbed Shelby Tube sampling was conducted in general conformance with ASTM Standard Practice D1587.

All Borings were backfilled with auger cuttings to nearly match existing grades.

Soil samples were logged and visually classified in the field by the driller or an on-site Geotechnical Engineer, and a portion of each soil sample was placed and sealed in a glass jar. Bedrock cores were placed and secured in a wooden box. The soil and rock classifications were later reviewed by a CME Engineer in CME's East Syracuse AASHTO re:source² Accredited Laboratory. The visual soil classifications were made using a modified Burmister Classification System, as practiced by CME, and as generally described in the attached document entitled *General Information & Key to the Test Boring Logs*. The *Test Boring Logs* and *Bedrock Core Photographs* are also attached to this report.

Pocket Penetrometer Testing (which gives an idea of the unconfined compressive strength of the soil) was performed on selected split-spoon samples retrieved from the Test Borings. The test results are given on the applicable *Test Boring Logs*.

2.3 Cone Penetration Testing

A total of 70 Cone Penetration Tests were performed by a subcontractor to CME using a TC-7 track mounted rig. Seismic Cone Penetration Tests and Pore Pressure Dissipation Tests were performed at selected locations. Please refer to the attached *Cone-Tec - CPT Report* prepared by ConeTec for CPT Logs and test results.

2.4 Groundwater Monitoring Wells

A total of 6 Groundwater Monitoring Wells, labeled W-4, W-5, W-6, W-7, W-8, and W-9, were installed during the second phase of the exploration program. These wells were installed in or near Test Borings B-337, B-391, B-370, B-400, B-420 and B-422 respectively. Please refer to the attached *Groundwater Monitoring Well Logs*, labeled W-4 to W-9, for details of the well installation.

As part of the first phase exploration, 3 Groundwater Monitoring Wells, labeled W-1, W-2 and W-3, were installed in or near Test Borings B-129, B-24, and B-227, respectively.

Periodic monitoring of the groundwater level in the wells was performed by CME. Please refer to the attached *Groundwater Observation Summary Table* for groundwater levels observed, thus far.

¹ Please note Boring Log for Test Boring B-346 was not included in the Geotechnical Data Report issued for that phase. This Boring Log is included in this report.

² **AASHTO re:source** – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. www.AASHTOresource.org.

CME Report No.: 28062B-03-1223

Page 3 of 4



2.5 Test Pits

A total of 5 Test Pits were excavated using a Link Belt Model LNK 27 excavator, equipped with a 24-inch-wide general-purpose bucket. The Test Pits were excavated and backfilled by a subcontractor to CME. The backfill consisted of excavated materials placed in 2 to 3 feet thick lifts, with each lift compacted using the excavator bucket making several hits. CME Engineer Astitwa Sharma, E.I.T. was on-site to observe the Test Pit excavation, take photographs, and prepare Test Pit Logs. *Test Pit Logs*, labeled TP-1 through TP-5, and *Test Pit Photographs* are attached to this Report.

Soil samples were logged and visually classified in the field by Sharma. The visual soil classifications were made using the modified Burmister Classification System.

In-situ Vane Shear Tests were performed at various depths in the Test Pits utilizing a Humbolt H-60 field testing apparatus. Pocket Penetrometer Testing was also performed in the Test Pits. Please refer to the attached *Vane Shear Test and Pocket Penetrometer Test Summary Tables* for test results.

2.6 Laboratory Testing

Laboratory testing was performed on selected soil samples, consisting of Natural Moisture Content, Atterberg Limits, Particle Size Analysis, Rock Core Compression, DIPRA, One-Dimensional Consolidation, Moisture-Density Relationship (Proctor Compaction), and California Bearing Ratio (CBR), in CME's East Syracuse Laboratory. Please refer to the attached *CME Laboratory Test Summary Report* for test methods and results.

Chloride and sulfate content testing on selected samples was performed by CME's subcontractor, Geotechnics. Please refer to the attached *Geotechnics Laboratory Test Summary Report* for test results.

Sulfur content testing and neutralization potential testing were performed on selected shale bedrock samples. This testing was performed by CME's subcontractor, CMT Laboratories, Inc. Please refer to the attached *CMT Laboratory Test Summary Report* for test results.

3.0 STANDARD OF CARE

CME endeavored to conduct services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the industry currently practicing in the same locality and under similar conditions as this project. No warranty, either expressed or implied, is made or intended by CME's proposal, contract, and written or oral reports, all of which warranties are hereby expressly disclaimed. CME shall not be responsible for the acts or omissions of the Client, its contractors, agents, and consultants. CME may rely upon information supplied by Client, its contractors, agents, and consultants or information available from generally accepted reputable sources, without independent verification, and CME assumes no responsibility for the accuracy thereof.

4.0 CLOSING

CME's services have been provided according to the requirements of the referenced CME Proposal/Agreement. No other representations, expressed or implied, are intended or made with respect to the information provided herein, including but not limited to, its suitability for use by others.

CME Report No.: 28062B-03-1223

Page 4 of 4

Respectfully Submitted, CME Associates, Inc.



Reviewed by:

CME Associates, Inc.

Anas N. Anasthas, P.E. Senior Geotechnical Engineer

Christopher R. Paolini, PE, MPS, EXWSM Senior Vice President

Attachment Listing:

Exploration Location Plan (1 of 1)

Coordinates and Elevations Tables (6 of 6)

Test Pit Logs (5 of 5)

Test Pit Photographs (5 of 5)

Vane Shear Test and Pocket Penetrometer Test Summary Tables (1 of 1)

Groundwater Observation Summary Table (1 of 1)

Groundwater Monitoring Well Logs (6 of 6)

Bedrock Core Photographs (17 of 17)

CME Laboratory Test Summary Report (22 of 22)

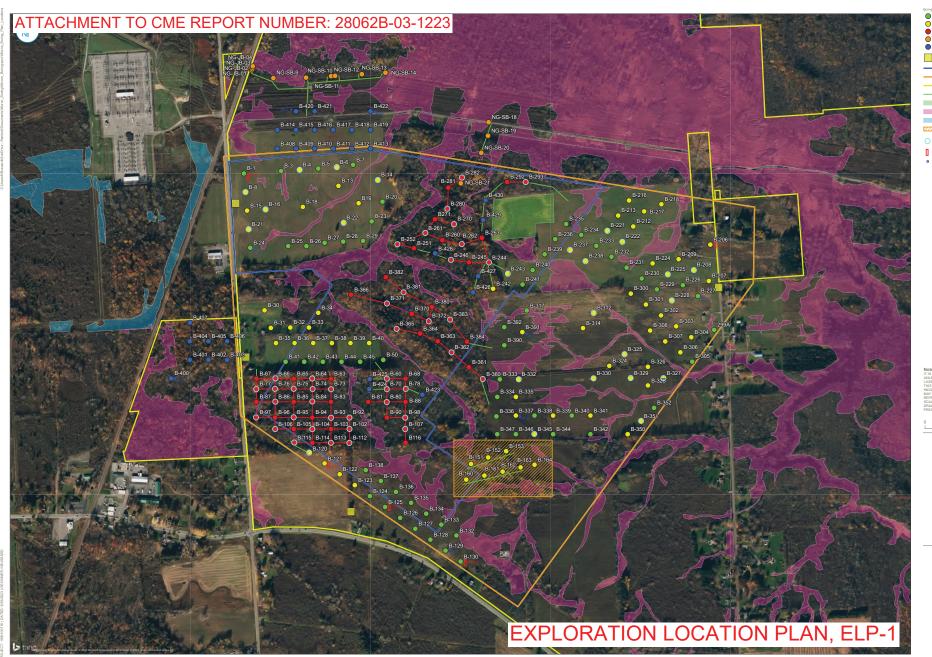
CMT Laboratory Test Summary Report (3 of 3)

Geotechnics Laboratory Test Summary Report (5 of 5)

Test Boring Logs (193 of 193)

ConeTec CPT Report (263 of 263)

General Information & Key to Test Boring Logs (4 of 4)



BORING PLAN LOCATIONS

Micron White Pine

D-107

RAMBOLL

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 1	43.19603	-76.16652	1164795.7	931352.0	392.7	Test Boring - First Phase
В 3	43.19609	-76.16503	1164822.2	931751.1	393.0	Test Boring - First Phase
В 4	43.19613	-76.16428	1164835.3	931950.8	393.2	Cone Penetration Test
B 5	43.19616	-76.16353	1164848.5	932150.3	392.7	Test Boring - First Phase
В 6	43.19619	-76.16278	1164861.8	932349.9	391.2	Cone Penetration Test
В 7	43.19628	-76.16215	1164895.2	932518.1	391.2	Test Boring - First Phase
В 8	43.19548	-76.16646	1164596.4	931369.0	393.7	Cone Penetration Test
B 13	43.19565	-76.16272	1164662.6	932366.8	391.1	Test Boring - Second Phase
B 14	43.19581	-76.16113	1164725.7	932791.1	394.0	Cone Penetration Test
B 15	43.19493	-76.16640	1164397.0	931386.1	394.0	Test Boring - Second Phase
B 16	43.19497	-76.16566	1164410.4	931585.5	393.9	Cone Penetration Test
B 18	43.19497	-76.16427	1164412.9	931955.2	391.9	Test Boring - Second Phase
B 19	43.19513	-76.16191	1164476.5	932583.5	391.8	Test Boring - Second Phase
B 20	43.19518	-76.16095	1164493.7	932838.9	392.4	Test Boring - First Phase
B 21	43.19438	-76.16634	1164197.8	931403.1	393.7	Cone Penetration Test
B 22	43.19456	-76.16253	1164266.0	932420.1	391.8	Cone Penetration Test
B 23	43.19459	-76.16139	1164281.0	932723.3	387.3	Test Boring - First Phase
B 24	43.19384	-76.16628	1163998.5	931420.0	394.6	Test Boring - First Phase
B 25	43.19386	-76.16476	1164010.3	931827.8	393.0	Test Boring - First Phase
B 26	43.19386	-76.16401	1164010.4	932027.5	392.1	Test Boring - First Phase
B 27	43.19397	-76.16329	1164051.5	932218.3	390.0	Test Boring - First Phase
B 28	43.19403	-76.16255	1164075.3	932415.6	390.5	Test Boring - First Phase
B 29	43.19416	-76.16178	1164120.7	932620.7	389.7	Test Boring - First Phase
В 30	43.19199	-76.16572	1163326.8	931573.7	392.3	Test Boring - Second Phase
B 31	43.19147	-76.16547	1163138.4	931641.2	394.8	Test Boring - Second Phase
B 32	43.19148	-76.16469	1163142.2	931850.1	392.3	Test Boring - Second Phase
В 33	43.19148	-76.16394	1163142.1	932050.2	395.8	Test Boring - Second Phase
B 34	43.19191	-76.16356	1163300.7	932150.2	394.2	Test Boring - Second Phase
В 35	43.19103	-76.16527	1162975.3	931696.1	397.4	Test Boring - Second Phase
В 36	43.19102	-76.16452	1162975.4	931896.0	394.7	Test Boring - Second Phase
В 37	43.19102	-76.16377	1162975.3	932096.1	394.3	Test Boring - Second Phase
В 38	43.19102	-76.16302	1162975.4	932296.0	397.2	Test Boring - Second Phase
В 39	43.19102	-76.16227	1162975.3	932496.0	397.0	Test Boring - Second Phase
B 40	43.19101	-76.16152	1162975.3	932696.2	396.5	Test Boring - Second Phase
B 41	43.19048	-76.16488	1162775.4	931799.5	398.8	Test Boring - First Phase
B 42	43.19047	-76.16413	1162775.4	931999.6	398.8	Test Boring - First Phase
B 43	43.19047	-76.16338	1162775.3	932199.7	396.3	Test Boring - First Phase
B 44	43.19047	-76.16263	1162775.3	932399.7	397.9	Test Boring - First Phase
B 45	43.19047	-76.16188	1162775.4	932599.5	399.9	Test Boring - First Phase
B 50	43.19052	-76.16095	1162795.3	932847.7	396.6	Test Boring - First Phase
B 60	43.18996	-76.16081	1162593.5	932886.7	401.0	Cone Penetration Test
B 63	43.18997	-76.16306	1162593.5	932286.7	400.5	Test Boring - Second Phase
B 64	43.18997	-76.16381	1162593.7	932086.8	400.0	Cone Penetration Test
B 65	43.18998	-76.16456	1162593.8	931886.9	402.5	Test Boring - Second Phase
В 66	43.18998	-76.16531	1162593.8	931686.8	402.4	Cone Penetration Test
B 67	43.18998	-76.16606	1162593.6	931486.8	405.1	Test Boring - Second Phase

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 68	43.18996	-76.16008	1162593.3	933082.3	398.5	Test Boring - Second Phase
B 70	43.18966	-76.16081	1162482.3	932886.9	403.6	Cone Penetration Test
B 73	43.18967	-76.16306	1162482.3	932286.9	402.0	Cone Penetration Test
B 74	43.18967	-76.16381	1162482.3	932086.9	402.6	Cone Penetration Test
B 75	43.18967	-76.16456	1162482.3	931886.6	404.4	Cone Penetration Test
B 76	43.18967	-76.16531	1162482.2	931686.7	403.2	Cone Penetration Test
B 77	43.18968	-76.16606	1162482.2	931486.6	404.5	Cone Penetration Test
B 78	43.18965	-76.16006	1162482.2	933086.8	402.1	Cone Penetration Test
B 80	.0.2000		Data Not Provide			Cone Penetration Test
B 81	43.18928	-76.16157	1162344.6	932686.6	404.4	Test Boring - Second Phase
B 83	43.18929	-76.16306	1162344.6	932286.8	404.8	Test Boring - Second Phase
B 84	43.18929	-76.16381	1162344.6	932086.8	403.7	Cone Penetration Test
B 85	43.18929	-76.16456	1162344.7	931886.8	404.7	Test Boring - Second Phase
B 86	43.18930	-76.16531	1162344.8	931687.0	404.0	Cone Penetration Test
B 87	43.18930	-76.16606	1162344.8	931486.9	403.8	Test Boring - Second Phase
B 88	43.18928	-76.16007	1162344.6	933086.7	404.6	Test Boring - Second Phase
B 90	43.18882	-76.16082	1162176.0	932887.0	406.0	Test Boring - Second Phase
B 92	43.18882	-76.16232	1162175.8	932486.8	406.2	Cone Penetration Test
B 93	43.18882	-76.16307	1162175.8	932286.8	407.4	Cone Penetration Test
B 94	43.18883	-76.16382	1162176.0	932086.8	406.8	Test Boring - Second Phase
B 95	43.18883	-76.16457	1162175.9	931886.8	406.1	Cone Penetration Test
В 96	43.18883	-76.16532	1162176.0	931686.8	407.8	Test Boring - Second Phase
В 97	43.18884	-76.16607	1162175.8	931486.7	406.0	Cone Penetration Test
B 98	43.18881	-76.16007	1162175.9	933086.6	405.6	Cone Penetration Test
B 102	43.18849	-76.16232	1162053.1	932486.9	408.6	Cone Penetration Test
B 103	43.18849	-76.16307	1162053.0	932286.7	408.5	Test Boring - Second Phase
B 104	43.18849	-76.16382	1162053.2	932086.9	407.0	Cone Penetration Test
B 105	43.18849	-76.16457	1162053.0	931886.6	406.4	Test Boring - Second Phase
B 106	43.18850	-76.16532	1162053.0	931686.7	407.1	Cone Penetration Test
B 107	43.18848	-76.16007	1162053.2	933086.9	406.1	Cone Penetration Test
B 112	43.18808	-76.16232	1161905.5	932486.9	410.3	Cone Penetration Test
B 113	43.18808	-76.16307	1161905.7	932286.6	410.1	Cone Penetration Test
B 114	43.18809	-76.16382	1161905.7	932087.0	409.8	Test Boring - Second Phase
B 115	43.18809	-76.16455	1161906.5	931893.8	407.0	Cone Penetration Test
B 116	43.18798	-76.16011	1161871.3	933077.3	406.3	Test Boring - Second Phase
B 120		Survey D	ata Not Provide	d by Thew		Cone Penetration Test
B 121	43.18748	-76.16334	1161684.2	932218.0	414.8	Test Boring - Second Phase
B 122	43.18715	-76.16273	1161567.2	932380.2	418.8	Test Boring - Second Phase
B 123	43.18683	-76.16212	1161450.3	932542.7	418.3	Test Boring - Second Phase
B 124	43.18651	-76.16152	1161333.5	932705.1	420.8	Test Boring - First Phase
B 125	43.18618	-76.16091	1161216.4	932867.1	422.1	Test Boring - First Phase
B 126	43.18586	-76.16030	1161099.4	933029.3	421.6	Test Boring - First Phase
B 127	43.18554	-76.15970	1160982.4	933191.5	420.6	Test Boring - First Phase
B 128	43.18521	-76.15909	1160865.4	933353.9	419.5	Test Boring - First Phase
B 129	43.18489	-76.15849	1160748.4	933516.1	418.8	Test Boring - First Phase
B 130	43.18457	-76.15788	1160631.4	933678.1	418.8	Test Boring - First Phase

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
В 132	43.18533	-76.15805	1160910.4	933632.8	410.3	Test Boring - First Phase
B 133	43.18566	-76.15865	1161027.2	933470.7	410.3	Test Boring - First Phase
B 134	43.18598	-76.15926	1161144.5	933308.4	411.5	Test Boring - First Phase
B 135	43.18630	-76.15986	1161261.4	933146.2	412.5	Test Boring - First Phase
B 136	43.18663	-76.16047	1161378.4	932984.0	413.0	Test Boring - First Phase
B 137	43.18695	-76.16107	1161495.3	932821.9	413.5	Test Boring - First Phase
B 138	43.18727	-76.16168	1161612.3	932659.7	412.4	Test Boring - First Phase
B 151	43.18744	-76.15744	1161678.5	933790.0	403.5	Test Boring - Second Phase
B 152	43.18763	-76.15675	1161747.9	933973.7	402.9	Test Boring - Second Phase
B 153	43.18781	-76.15603	1161815.1	934166.9	404.4	Test Boring - Second Phase
B 160	43.18698	-76.15764	1161509.9	933738.3	405.1	Test Boring - Second Phase
B 161	43.18710	-76.15691	1161553.6	933933.3	404.6	Test Boring - Second Phase
B 162	43.18721	-76.15617	1161596.0	934128.8	401.3	Test Boring - Second Phase
B 163	43.18733	-76.15545	1161641.3	934321.3	400.5	Test Boring - Second Phase
B 164	43.18739	-76.15491	1161664.6	934464.8	402.6	Test Boring - Second Phase
В 206	43.19386	-76.14777	1164031.9	936358.1	390.7	Test Boring - Second Phase
B 207	43.19279	-76.14783	1163641.8	936342.3	389.9	Test Boring - Second Phase
B 208	43.19311	-76.14844	1163758.9	936180.1	390.8	Cone Penetration Test
B 209	43.19344	-76.14905	1163875.8	936017.8	391.0	Test Boring - Second Phase
B 212	43.19441	-76.15086	1164226.7	935531.1	386.8	Test Boring - Second Phase
B 213	43.19473	-76.15147	1164343.8	935369.0	387.3	Test Boring - Second Phase
B 216	43.19517	-76.15103	1164506.0	935485.7	385.8	Test Boring - Second Phase
B 217	43.19485	-76.15042	1164388.9	935648.1	387.8	Test Boring - Second Phase
B 218	43.19506	-76.14973	1164465.4	935832.9	386.4	Test Boring - Second Phase
B 221	43.19429	-76.15191	1164181.4	935251.9	389.8	Cone Penetration Test
B 222	43.19396	-76.15131	1164064.5	935414.1	389.7	Cone Penetration Test
B 224	43.19332	-76.15009	1163830.7	935738.7	389.5	Test Boring - Second Phase
B 225	43.19299	-76.14949	1163713.5	935900.8	391.5	Cone Penetration Test
B 226	43.19267	-76.14888	1163596.6	936062.9	390.1	Test Boring - First Phase
B 227	43.19235	-76.14828	1163479.6	936225.2	389.3	Test Boring - First Phase
B 228	43.19223	-76.14932	1163434.4	935945.9	392.4	Cone Penetration Test
B 229	43.19255	-76.14993	1163551.3	935783.8	391.9	Test Boring - First Phase
B 230	43.19287	-76.15054	1163668.3	935621.5	391.0	Test Boring - First Phase
B 231	43.19320	-76.15114	1163785.3	935459.3	388.2	Test Boring - First Phase
B 232	43.19352	-76.15175	1163902.2	935297.1	387.8	Test Boring - First Phase
B 233	43.19384	-76.15235	1164019.2	935134.9	389.9	Test Boring - First Phase
B 234	43.19417	-76.15296	1164136.2	934972.7	389.9	Test Boring - First Phase
B 235	43.19449	-76.15357	1164253.2	934810.5	390.4	Test Boring - First Phase
B 236	43.19405	-76.15401	1164090.9	934693.5	394.0	Test Boring - First Phase
B 237	43.19372	-76.15340	1163974.0	934855.6	393.0	Cone Penetration Test
B 238	43.19340	-76.15280	1163857.0	935017.8	392.2	Cone Penetration Test
B 239	43.19361	-76.15436	1163929.8	934600.3	393.0	Test Boring - First Phase
B 240	43.19308	-76.15490	1163738.9	934457.1	392.8	Test Boring - First Phase
B 241	43.19272	-76.15533	1163604.4	934342.7	393.5	Test Boring - First Phase
B 242	43.19259	-76.15652	1163556.3	934024.9	392.7	Test Boring - Second Phase
B 243	43.19304	-76.15594	1163721.2	934180.3	393.3	Cone Penetration Test

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 244	43.19336	-76.15668	1163837.9	933981.6	392.9	Cone Penetration Test
B 245	43.19338	-76.15746	1163842.4	933773.8	392.4	Test Boring - Second Phase
B 246	43.19350	-76.15815	1163887.8	933589.4	392.0	Cone Penetration Test
B 251	43.19386	-76.15965	1164014.3	933189.3	392.5	Test Boring - Second Phase
B 252	43.19393	-76.16024	1164041.8	933030.9	388.5	Cone Penetration Test
B 260	43.19403	-76.15855	1164080.5	933482.1	392.6	Test Boring - Second Phase
B 261	43.19424	-76.15922	1164152.8	933303.9	392.0	Cone Penetration Test
B 262	43.19390	-76.15776	1164032.9	933694.2	394.9	Cone Penetration Test
B 263	43.19410	-76.15696	1164104.9	933905.2	392.2	Test Boring - Second Phase
B 270	43.19450	-76.15807	1164252.7	933610.1	392.4	Cone Penetration Test
B 271	43.19461	-76.15879	1164288.2	933416.2	393.1	Test Boring - Second Phase
B 280	43.19494	-76.15831	1164411.6	933545.0	385.2	Cone Penetration Test
B 281	43.19560	-76.15827	1164652.6	933554.5	383.7	Test Boring - Second Phase
B 282	43.19588	-76.15775	1164756.1	933691.5	386.2	Cone Penetration Test
B 292	43.19575	-76.15593	1164710.7	934178.5	385.5	Test Boring - Second Phase
B 293	43.19573	-76.15518	1164704.5	934377.6	384.4	Cone Penetration Test
B 299	43.19145	-76.14753	1163153.8	936425.5	387.7	Test Boring - First Phase
В 300	43.19243	-76.15098	1163506.1	935504.5	393.6	Test Boring - Second Phase
B 301	43.19211	-76.15037	1163389.1	935666.9	392.6	Test Boring - Second Phase
B 302	43.19178	-76.14976	1163272.1	935829.1	392.3	Test Boring - Second Phase
В 303	43.19146	-76.14916	1163155.1	935991.3	390.8	Test Boring - Second Phase
В 304	43.19114	-76.14855	1163038.1	936153.5	390.5	Test Boring - Second Phase
B 305	43.19042	-76.14852	1162775.9	936163.8	388.1	Test Boring - First Phase
В 306	43.19069	-76.14899	1162875.9	936036.6	388.3	Test Boring - Second Phase
В 307	43.19102	-76.14960	1162992.9	935874.3	388.7	Test Boring - Second Phase
B 308	43.19134	-76.15021	1163110.0	935712.2	389.5	Test Boring - Second Phase
B 312	43.19187	-76.15247	1163298.6	935108.4	390.9	Cone Penetration Test
B 314	43.19142	-76.15291	1163136.5	934991.6	392.0	Test Boring - Second Phase
B 317	43.19195	-76.15517	1163325.2	934387.9	392.9	Test Boring - First Phase
B 324	43.19031	-76.15186	1162730.9	935273.6	390.7	Test Boring - Second Phase
B 325	43.19065	-76.15124	1162857.2	935436.6	390.8	Cone Penetration Test
B 326	43.19027	-76.15030	1162720.7	935688.2	388.4	Test Boring - Second Phase
B 327	43.18993	-76.14968	1162597.3	935855.2	389.0	Cone Penetration Test
B 328	43.18976	-76.15030	1162533.7	935689.0	389.6	Test Boring - Second Phase
B 329	43.18994	-76.15100	1162597.4	935503.6	389.8	Cone Penetration Test
B 330	43.19000	-76.15249	1162618.6	935104.6	390.8	Cone Penetration Test
B 332	43.18992	-76.15552	1162585.9	934298.8	393.7	Cone Penetration Test
B 333	43.18993	-76.15627	1162586.0	934098.8	394.9	Test Boring - First Phase
B 334	43.18941	-76.15637	1162397.5	934071.1	397.8	Test Boring - First Phase
B 335	43.18941	-76.15562	1162397.4	934271.0	394.8	Test Boring - Second Phase
B 336	43.18884	-76.15641	1162188.6	934062.2	403.9	Test Boring - First Phase
B 337	43.18886	-76.15563	1162197.4	934270.9	403.5	Test Boring - Second Phase
B 338	43.18885	-76.15488	1162197.4	934470.9	394.4	Test Boring - First Phase
B 339	43.18885	-76.15413	1162197.4	934670.9	391.9	Test Boring - Second Phase
B 340	43.18878	-76.15333	1162172.1	934882.8	391.4	Test Boring - First Phase
B 341	43.18886	-76.15267	1162201.4	935059.4	391.0	Test Boring - Second Phase

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 342	43.18830	-76.15263	1161997.4	935071.0	391.5	Test Boring - First Phase
B 343	43.18830	-76.15338	1161997.4	934870.9	393.1	Cone Penetration Test
B 344	43.18830	-76.15413	1161997.4	934671.0	395.8	Test Boring - First Phase
B 345	43.18830	-76.15488	1161997.3	934471.0	406.6	Cone Penetration Test
В 346	43.18831	-76.15563	1161997.5	934271.1	403.9	Test Boring - First Phase
B 347	43.18831	-76.15638	1161997.5	934071.1	401.7	Test Boring - First Phase
B 350	43.18829	-76.15113	1161997.4	935470.9	391.4	Test Boring - Second Phase
B 351	43.18868	-76.15060	1162138.8	935612.5	390.1	Cone Penetration Test
B 352	43.18901	-76.15006	1162261.3	935756.5	388.7	Test Boring - First Phase
В 360	43.18994	-76.15694	1162589.9	933920.1	396.9	Cone Penetration Test
B 361	43.19028	-76.15750	1162714.3	933768.5	395.1	Test Boring - Second Phase
В 362	43.19072	-76.15820	1162872.2	933582.0	395.2	Cone Penetration Test
В 363	43.19106	-76.15874	1162995.9	933435.6	395.8	Test Boring - Second Phase
В 364	43.19129	-76.15948	1163078.8	933238.5	395.8	Test Boring - Second Phase
В 365	43.19138	-76.16042	1163111.1	932988.0	404.8	Cone Penetration Test
В 366	43.19244	-76.16223	1163495.2	932502.4	393.0	Test Boring - Second Phase
В 370	43.19187	-76.15980	1163290.1	933153.2	393.7	Test Boring - Second Phase
B 371	43.19217	-76.16079	1163398.9	932887.2	394.7	Cone Penetration Test
B 372	43.19165	-76.15911	1163212.1	933337.5	393.3	Cone Penetration Test
В 380	43.19199	-76.15900	1163333.5	933364.7	391.0	Test Boring - Second Phase
B 381	43.19252	-76.16013	1163527.8	933064.6	393.7	Cone Penetration Test
B 382	43.19294	-76.16073	1163678.8	932903.2	386.7	Test Boring - Second Phase
В 383	43.19170	-76.15824	1163229.5	933569.7	391.7	Cone Penetration Test
В 384	43.19104	-76.15758	1162991.0	933746.6	392.6	Test Boring - Second Phase
В 390	43.19093	-76.15608	1162951.9	934146.7	392.8	Test Boring - First Phase
B 391	43.19131	-76.15535	1163093.3	934340.4	393.0	Test Boring - Second Phase
B 392	43.19146	-76.15608	1163146.8	934146.1	393.5	Test Boring - First Phase
B 400	43.19004	-76.16946	1162609.1	930580.2	399.6	Test Boring - Second Phase
B 401	43.19040	-76.16883	1162743.2	930748.4	400.7	Test Boring - Second Phase
B 402	43.19054	-76.16799	1162795.1	930971.7	398.3	Test Boring - Second Phase
B 403	43.19052	-76.16724	1162788.3	931170.5	400.1	Test Boring - Second Phase
B 404	43.19105	-76.16873	1162979.7	930772.6	399.0	Test Boring - Second Phase
B 405	43.19111	-76.16795	1163003.0	930979.9	398.3	Test Boring - Second Phase
B 406	43.19109	-76.16723	1162995.3	931171.9	397.7	Test Boring - Second Phase
B 407	43.19151	-76.16870	1163148.1	930779.9	397.0	Test Boring - Second Phase
B 408	43.19675	-76.16517 76.16442	1165063.0	931711.3	392.3	Test Boring - Second Phase
B 409	43.19675	-76.16442 76.16267	1165062.9	931911.3	393.5	Test Boring - Second Phase Test Boring - Second Phase
B 410	43.19675	-76.16367 -76.16292	1165062.9	932111.3	393.3 393.2	Test Boring - Second Phase
B 411 B 412	43.19675 43.19674	-76.16292 -76.16217	1165062.9 1165062.9	932311.3 932511.3	393.2	Test Boring - Second Phase
B 412	43.19674	-76.16217	1165062.9	932511.3	392.2	Test Boring - Second Phase
B 413	43.19674	-76.16142	1165225.2	932711.2	392.0	Test Boring - Second Phase
B 414	43.19720	-76.16442	1165224.3	931711.3	391.8	Test Boring - Second Phase
B 415	43.19719	-76.16367	1165262.9	932111.3	392.3	Test Boring - Second Phase
B 410	43.19729	-76.16292	1165262.9	932311.3	388.8	Test Boring - Second Phase
B 417	43.19729	-76.16232	1165263.0	932511.3	385.4	Test Boring - Second Phase
D 410	43.13/23	-/0.1021/	1103203.0	332311.2	303.4	rest burning - Security Friase

Exploration ID	Latitude	Longitude	Northing (ft)	Easting (ft)	Elevation (ft)	Exploration Phase and Type
B 419	43.19729	-76.16142	1165263.0	932711.2	386.1	Test Boring - Second Phase
B 420	43.19785	-76.16441	1165462.9	931911.3	390.9	Test Boring - Second Phase
B 421	43.19785	-76.16366	1165462.8	932111.2	386.0	Test Boring - Second Phase
B 422	43.19784	-76.16142	1165463.0	932711.0	382.0	Test Boring - Second Phase
B 423	43.18951	-76.15945	1162430.6	933250.3	401.0	Test Boring - Second Phase
B 424	43.18966	-76.16152	1162480.8	932697.4	403.0	Test Boring - Second Phase
B 425	43.18995	-76.16151	1162587.9	932701.6	401.1	Test Boring - Second Phase
B 426	43.19221	-76.15776	1163415.5	933696.8	390.5	Test Boring - Second Phase
B 427	43.19275	-76.15712	1163615.4	933865.3	390.9	Test Boring - Second Phase
B 428	43.19371	-76.15888	1163961.8	933395.1	392.7	Test Boring - Second Phase
B 429	43.19460	-76.15706	1164289.2	933878.4	390.8	Test Boring - Second Phase
B 430	43.19503	-76.15707	1164447.2	933873.8	390.2	Test Boring - Second Phase

				6035 Co	orporate Drive	SUI	BSURFACI	E	Test Pit ID	TP- 1
		IV			racuse, NY 13057	EXP	LORATIO	N	Page No.	1 of 1
	Asso	ciates	s, Inc.	-	315-701-0522	TES	ST PIT LO	G	Report No.	28062B-03-1223
Project I	Vame:	Micron	Camp	us. Clav.	New York	IL	TITLE	•	Date Started	11/08/23
Client:		Rambo		us, eluj,	TOW TOTA				Date Finished	11/08/23
Location Location				on Locati	on Plan				Surface Elev.	392.7'
METH			_				CROUND	WATERO	BSERVATION	
Operator		Daryl S			011	Date	Time			mment
Inspecto		Astitwa				11/8/2023	8:55	Depth (Ft.) None Noted		Remark 3
_				del LNK	27	11/8/2023	6:33	None Noted	See R	temark 5
Equipme -					21					
Гуре:		Toothe	а Виск	et						
Bucket V	Vidth:	24"			AUGUAL OLA		NOEMAR	EDIAL		
				1	VISUAL CLA	ASSIFICATIO	N OF MAT	ERIAL		
Depth		Sample	_	Depth of	c - coarse	and - 35 to 50% / se	ome - 20 to 35%			
Scale	Sample	(F		Change	m - medium	little - 10 to 20% /				
(Feet)	No.	From	To	(Ft.)	f - fine					
0					Topsoil and Organic	Materials (moist	, easy digging)		
1										
				2.0						
2	S-1	2.0	4.0		Brown mottled SILT	, little CLAY, tra	ice mf GRAV	EL, trace cmf	SAND (moist, ea	sy digging)
3										
				4.0						
4					Brown SILT, some C	CLAY, trace cmf	SAND (moist	, easy digging)	
									,	
5							•	, , , , , ,	,	
							,		,	
6							`	, , , , ,	,	
									,	
7				7.0					,	
				<u> 7.0</u> _	Grey/Brown SILT, so	ome CLAY, trace				
0				7.0	Grey/Brown SILT, so	ome CLAY, trace				
8				7.0	•					
8				<u>7.0</u>	Grey/Brown SILT, so Bottom of Test Pit @					
				7.0	•					
9				7.0	•					
9				7.0	•					
				_ 7.0 _	•					
9				<u>7.0</u>	•					
9				_ 7.0 _	•					
9 10 11				7.0	•					
9				7.0	•					
9 10 11 12				7.0	•					
9 10 11				7.0	•					
9 10 11 12 13				7.0	•					
9 10 11 12				7.0	•					
9 10 11 12 13 14				7.0	•					
9 10 11 12 13				7.0	•					

- 1. See Test Pit Photographs attached.
- 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- 3. The Clayey Silt soils exhibit low permeability, and groundwater movement through this stratum is slow. Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open. Wet and/or grey soils were noted, which may be indicative of soils present below groundwater.

				6035 C	orporate Drive	SU	BSURFAC	E	Test Pit ID	TP- 2
		IV			racuse, NY 13057	EXF	PLORATIO	ON	Page No.	1 of 1
	Asso	ciate	s, Inc.	Phone:	315-701-0522	TES	ST PIT LO	\mathbf{G}	Report No.	28062B-03-1223
roject	Name:	Micro	n Camp	us, Clay,	New York				Date Started	11/08/23
lient:		Rambo							Date Finished	11/08/23
ocatio	n:	See Ex	plorati	on Locati	ion Plan				Surface Elev.	390.7'
ЛЕТІ	HOD O			IGATI			GROUND	WATER O	BSERVATIO	NS
perate	or:	Daryl	Sherma	n		Date	Time	Depth (Ft.)	Co	omment
- 1spect		-		na, EIT		11/8/2023	10:20	None Noted	Water Seeping	at 2'. See Remark 3
quipm		Link B	elt Mo	del LNK	27				, ,	
ype:		Toothe	ed Buck	cet						
	Width:	24"								
					VISUAL CL	ASSIFICATION	N OF MAT	ERIAL		
Depth		Sample	e Depth		c - coarse	1				
Scale	Sample		čt.)	Depth of Change	m - medium	and - 35 to 50% / s				
(Feet)	No.	From	То	(Ft.)	f - fine	little - 10 to 20% /	trace - 0 to 10%			
0					Topsoil and Organi	c Materials (mois	t, easy digging	<u>g)</u>		
						`	,			
1				1.5						
					Brown mottled SIL'	T, little CLAY, tra	ace mf GRAV	EL, trace mf S	SAND (wet, easy	digging)
2	S-1	2.0	4.0						•	<i>CC C</i> ,
3										
				4.0						
4					Brown SILT, some	CLAY, trace cmf	SAND (moist	t, easy digging	;)	
5										
6										
				7.0	L					
7					Grey/Brown mottle	d SILT, little CLA	\overline{XY} , fine cmf \overline{S}	AND (moist,	easy digging)	
8										
				9.0	 					
9					Brown/Reddish SIL	T and CLAY, tra	ce fine SAND	(wet, easy dig	gging)	
10										
					Bottom of Test Pit (@10.5'				
11										
12										
13										
14										
15										
16				Ī						

- 1. See Test Pit Photographs attached.
- 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- 3. The Clayey Silt soils exhibit low permeability, and groundwater movement through this stratum is slow. Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open. Wet and/or grey soils were noted, which may be indicative of soils present below groundwater.

The state of the s				6035 C	orporate Drive	SU	BSURFAC	E	Test Pit ID	TP- 3
		IV			racuse, NY 13057	EXP	PLORATIO	N	Page No.	1 of 1
	Asso	ciate	s, Inc.	•	315-701-0522		ST PIT LO		Report No.	28062B-03-1223
Project	Name	Micro	n Camn		New York	1126	<u> </u>	<u> </u>	Date Started	11/08/23
Client:	rainc.	Rambo		us, Ciay,	New Tork				Date Finished	11/08/23
Location	n.			on Locati	on Dlan				Surface Elev.	418.8'
			-			1	CDOUND	WATED	BSERVATIO	
				IGATI	UN	ъ.				
Operato		-	Sherma			Date	Time	Depth (Ft.)		omment
Inspecto				na, EIT		11/8/2023	11:30	6.5'	Water	Seeping at 2'
Equipm	ent:			del LNK	27					
Туре:			ed Buck	cet						
Bucket	Width:	24"								
				_	VISUAL CLA	ASSIFICATIO	N OF MAT	ERIAL		
Depth		Sample	e Depth	Depth of	c - coarse	and - 35 to 50% / s	ome 20 to 35%			
Scale	Sample	(F	łt.)	Change	m - medium	little - 10 to 20% /				
(Feet)	No.	From	То	(Ft.)	f - fine	10 10 20707	11000 0 10 1070			
0					Topsoil and Organic	Materials, some	COBBLES (n	noist, modera	te digging)	
1				1.5						
					Black/Dark Grey cm	f SAND and cmf	GRAVEL, sc	me COBBLE	ES, some BOUL	DERS (wet,
2					hard digging)					
	S-1	2.0	4.0		Brown Grey SILT, so	ome cmf SAND,	some cmf GR	AVEL, little	COBBLES (wet	, hard digging)
3					,	,		,		, 20 0,
				4.0						
4				- <u>-: </u>	Grey/Brown cmf SA	ND and cmf GR	AVEL, some I	BOULDERS.	some COBBLE	S. little SILT
•					(wet, hard digging)			o o e e e e e e e e e e e e e e e e e e		2, 111110 2121
5					(wet, nara argging)					
3										
6										
O				7.0						
7				- /. 0 -	Grey cmf SAND and	CILT same and	CD AVEL as	CODDI I	7C (maigt hand a	lianina) Daggihla Ti
/							I GRAVEL, SC	one COBBLI	25 (moist, nard c	ilggilig) Possible II
0					Bottom of Test Pit @), 1.3				
8										
0										
9										
10										
10										
11										
12										
13										
14										
15										
16										

- 1. See Test Pit Photographs attached.
- 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.

				6035 Co	orporate Drive	SU	BSURFAC1	E	Test Pit ID	TP- 4
		IV			racuse, NY 13057	EXPLORATION		Page No.	1 of 1	
	Asso	ciates	s, Inc.	Phone:	315-701-0522	TES	TEST PIT LOG			28062B-03-1223
roject 1	Name:	Micror	Camp	us, Clay,	New York			_	Date Started	11/08/23
Client:		Rambo							Date Finished	11/08/23
ocation	1:	See Ex	ploratio	on Locati	on Plan				Surface Elev.	422.1'
METH	OD O			IGATI			GROUND	WATER O	BSERVATIO	NS
)perato	r:	Daryl S	Sherma	n		Date	Time	Depth (Ft.)	Co	mment
nspecto	r:	Astitwa	a Sharn	na, EIT		11/8/2023	12:30	None Noted	See 1	Remark 3
Equipm	ent:	Link B	elt Mod	del LNK	27					
ype:		Toothe	d Buck	et						
ucket \	Width:	24"								
					VISUAL CL	LASSIFICATIO	N OF MAT	ERIAL		
Depth		Sample	Depth	Depth of	c - coarse	and - 35 to 50% / s	ome 20 to 35%			
Scale	Sample	(F	t.)	Change	m - medium	little - 10 to 20% /				
(Feet)	No.	From	To	(Ft.)	f - fine	10 10 20707				
0					Topsoil and Organi	ic Materials (mois	t, easy digging	g)		
				1.0	 				. 	
					Brown SILT and cr	mf SAND, little cr	nf GRAVEL, t	trace COBBL	ES (moist, medic	ım digging)
1										
1										
1 2	S-1	2.0	4.0							
	S-1	2.0	4.0	3.0						
	S-1	2.0	4.0	3.0	Brown cmf SAND	and cmf GRAVEI	, some SILT,	little COBBL	ES (moist, medi	um to hard diggin
2	S-1	2.0	4.0	3.0	Brown cmf SAND	and cmf GRAVEI	., some SILT,	little COBBL	ES (moist, medit	um to hard diggin
2	S-1	2.0	4.0	3.0	Brown cmf SAND	and cmf GRAVEI	., some SILT,	little COBBL	ES (moist, mediu	um to hard diggin
2	S-1	2.0	4.0	3.0	Brown cmf SAND	and cmf GRAVEI	L, some SILT,	little COBBL	ES (moist, mediu	um to hard diggin
2	S-1	2.0	4.0	3.0	Brown cmf SAND	and cmf GRAVEI	L, some SILT,	little COBBL	ES (moist, medit	um to hard diggin
2 3 4	S-1	2.0	4.0	3.0	Brown cmf SAND	and cmf GRAVEI	., some SILT,	little COBBL	ES (moist, medit	um to hard diggin
2 3 4	S-1	2.0	4.0	3.0	Brown cmf SAND	and cmf GRAVEI	L, some SILT,	little COBBL	ES (moist, medit	um to hard diggin
2 3 4 5	S-1	2.0	4.0	<u>3.0</u>						
2 3 4 5	S-1	2.0	4.0		Brown cmf SAND					
2 3 4 5 6	S-1	2.0	4.0							
2 3 4 5 6	S-1	2.0	4.0		Grey SILT and cmf					
2 3 4 5 6 7	S-1	2.0	4.0		Grey SILT and cmf	f SAND, some cm				
2 3 4 5 6 7	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9 10	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9 10 11 12	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9 10	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9 10 11 12 13	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9 10 11 12	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9 10 11 12 13 14	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				
2 3 4 5 6 7 8 9 10 11 12 13	S-1	2.0	4.0		Grey SILT and cmf Possible Till	f SAND, some cm				

- 1. See Test Pit Photographs attached.
- 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- 3. Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open.

				6035 Co	orporate Drive	SU	BSURFAC1	E	Test Pit ID	TP- 5
		IV			racuse, NY 13057	EXP	LORATIO	N	Page No.	1 of 1
	Asso	ciate	s, Inc.	Phone:	315-701-0522	TES	ST PIT LO	G	Report No.	28062B-03-1223
Project	Name:	Micro	n Camp	us, Clay,	New York		211120		Date Started	11/08/23
Client:		Rambo							Date Finished	11/08/23
Location	n:	See Ex	ploration	on Locati	on Plan				Surface Elev.	414.8'
			-	IGATI			GROUND	WATER O	BSERVATIO	
Operato			Sherma			Date	Time	Depth (Ft.)		omment
Inspecto		-		na, EIT		11/8/2023	13:28	None Noted		Remark 3
Equipm				del LNK	27					
Type:		Toothe	ed Buck	cet						
	Width:	24"								
					VISUAL CLA	SSIFICATIO	N OF MAT	ERIAL		
Depth		Sample	e Depth	Depth of	c - coarse	and - 35 to 50% / s	ama 20 ta 259/			
Scale	Sample		Ft.)	Change	m - medium	little - 10 to 20% /				
(Feet)	No.	From	To	(Ft.)	f - fine					
0					Topsoil and Organic	Materials (moist	, easy digging	<u> </u>		
				1.0						
1					Brown cmf SAND ar	nd SILT, some cr	mf GRAVEL,	little COBBL	LES (moist, medi	um digging)
2				2.5						
	S-1	2.5	4.0		Brown SILT, some c	mf SAND, little	cmf GRAVEL	ـ, little COBE	BLES (moist, me	dium to hard digging
3										
				4.0	— . — . — . — . —					— - — - — -
4					Brown cmf SAND ar	nd emf GRAVEI	., some COBB	BLES, some S	ILT (moist, med	ium to hard digging)
5										
6				. .						
-				7.0			CCD AVEL 1	u coppie		
7					Grey SILT and cmf S	SAND, some cm	GRAVEL, III	ttle COBBLE	S (moist, hard d	igging)
0					Possible Till					
8										
Ω					Bottom of Test Pit @	0.0'				
9					bottom of Test Pit (a)	/, 9. 0				
10										
10										
11										
11										
12										
12										
13										
13										
14										
15										
16										

- 1. See Test Pit Photographs, attached.
- 2. Test Pit excavated and backfilled by a subcontractor to CME, utilizing a Link Belt Model LNK 27 excavator, equipped with a 24" wide bucket with teeth.
- 3. Groundwater did not collect and accumulate in the test pit during the short time the test pit was left open.

Attachment to CME Report Number: 28062B-03-1223

Test Pit Photographs
Page **1** of **5**





Figure 1: Test Pit TP-1



Figure 2: Materials excavated from TP-1

Attachment to CME Report Number: 28062B-03-1223

Test Pit Photographs
Page **2** of **5**





Figure 3: Test Pit TP-2



Figure 4: Materials excavated from TP-2

Attachment to CME Report Number: 28062B-03-1223

Test Pit Photographs
Page **3** of **5**





Figure 5: Test Pit TP-3



Figure 6: Materials excavated from TP-3

Attachment to CME Report Number: 28062B-03-1223

Test Pit Photographs Page **4** of **5**





Figure 7: Test Pit TP-4



Figure 8: Materials excavated from TP-4

Attachment to CME Report Number: 28062B-03-1223

Test Pit Photographs
Page **5** of **5**





Figure 9: Test Pit TP-5



Figure 10: Materials Excavated from TP-5

In-situ Vane Shear Test Readings

		TEST 1		TEST 2		TEST 3	
	Depth		Residual		Residual		Residual
TESP PIT ID	(ft)	Peak (psf)	(psf)	Peak (psf)	(psf)	Peak (psf)	(psf)
TP -1	2	3,675	1,420	2,589	1,336	3,341	1,754
	3	793	251	1,420	585	1,002	418
	4	167	84	501	84	418	251
TP -2	2	2,547	1,253	2,255	626	2,714	1,587
	3	1,462	585	1,670	585	1,295	418
	4	459	167	418	125	376	146
TP -4	2	1,023	459	1,044	418	835	397
TP -5	2.5	2,046	793	1,754	919	1,712	835

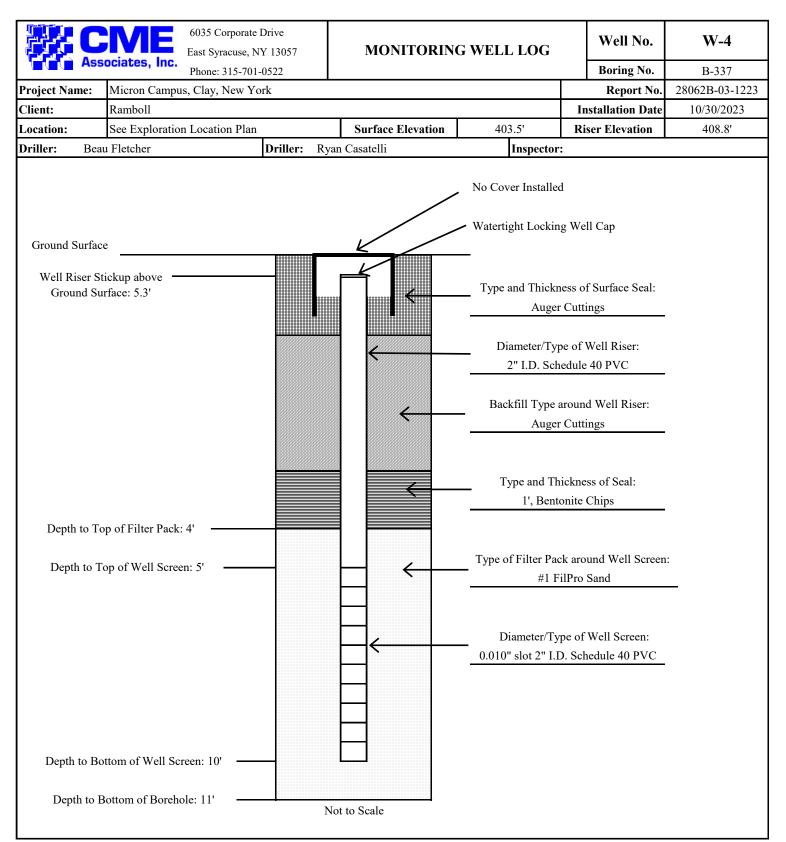
In-situ Pocket Penetrometer Readings

	Depth			
TEST PIT ID	(ft)	TEST 1 (tsf)	TEST 2 (tsf)	TEST 3 (tsf)
TP-1	2	1.9	2.2	3.0
	3	1.3	1.3	1.5
	4	0.8	0.5	0.8
TP-2	2	3.8	3.5	2.8
	3	1.3	1.3	1.3
	4	0.8	0.5	0.5
TP-4	2	0.8	0.5	0.8
TP-5	2.5	0.5	0.8	0.5

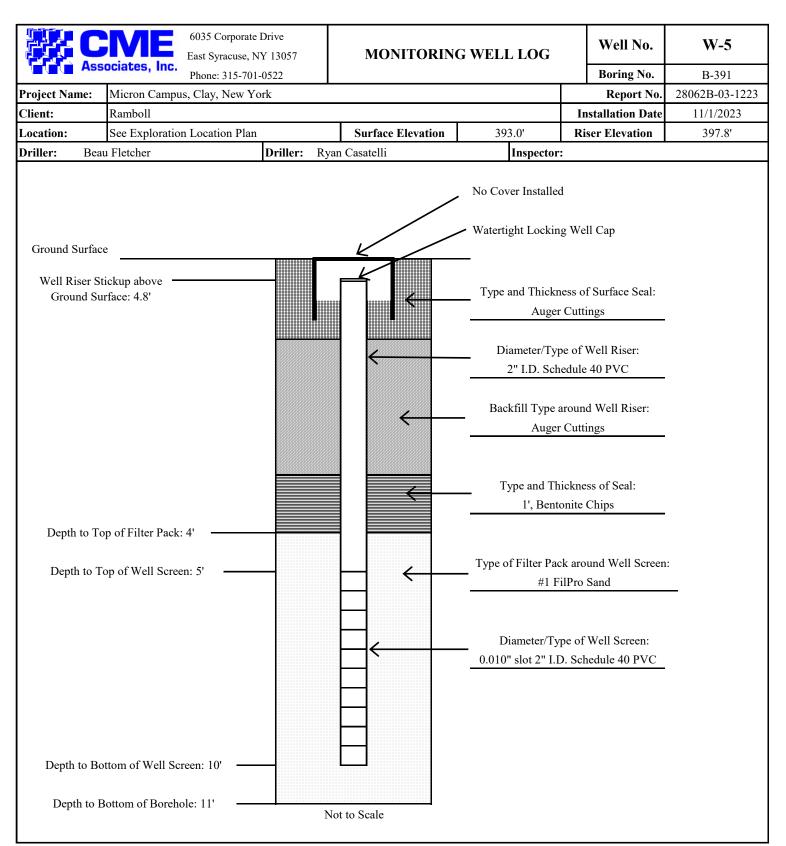
Attachment to CME Report No: 28062B-03-1223

Groundwater Observation Summary Table

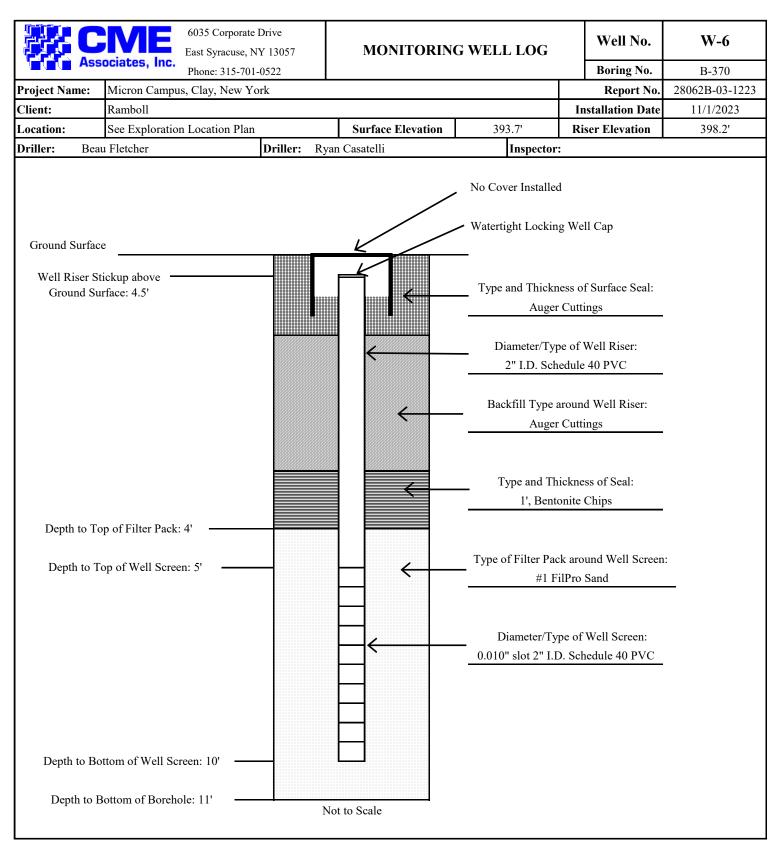
Observed Groundwater Elevation (Feet)									
	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9
Date	B-129	B-24	B-227	B-337	B-391	B-370	B-400	B-420	B-422
04/19/23	418.7		385.5						
04/21/23		393.8							
05/16/23	416.1	392.5	385.7						
05/17/23	416.0	391.8	386.4						
06/12/23	414.6	386.8	385.3						
10/05/23	415.2	389.2	386.4						
11/09/23	418.2	394.2	386.2	398.4	392.3	388.7	398.5	388.7	379.4
11/17/23	419.6	394.4	387.1	398.9	392.1	389.8	398.5	386.7	377.0



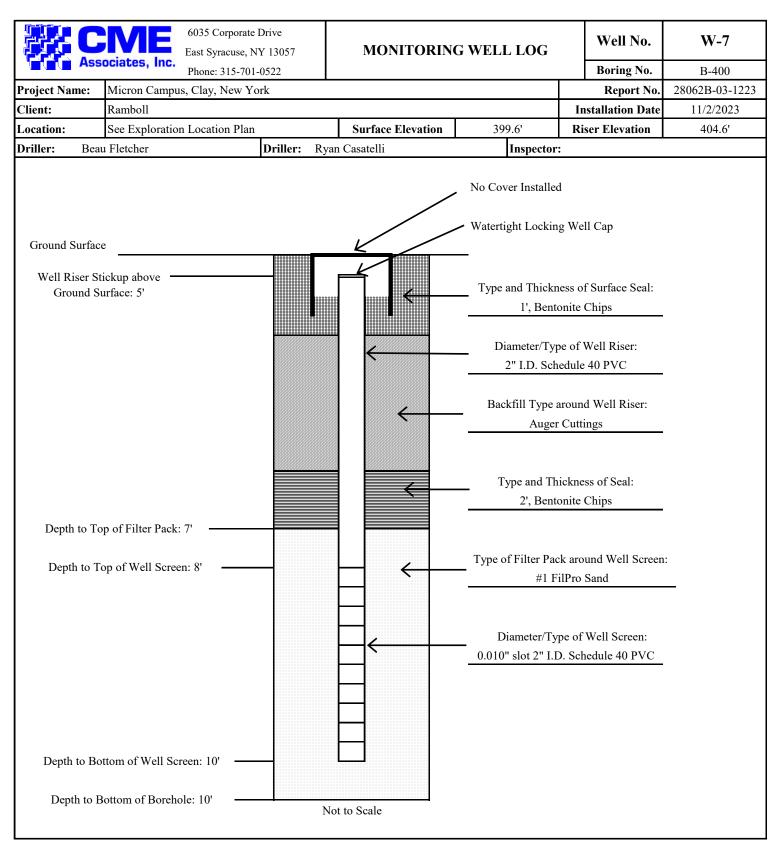
1. See Test Boring Log B-337 for soil information.



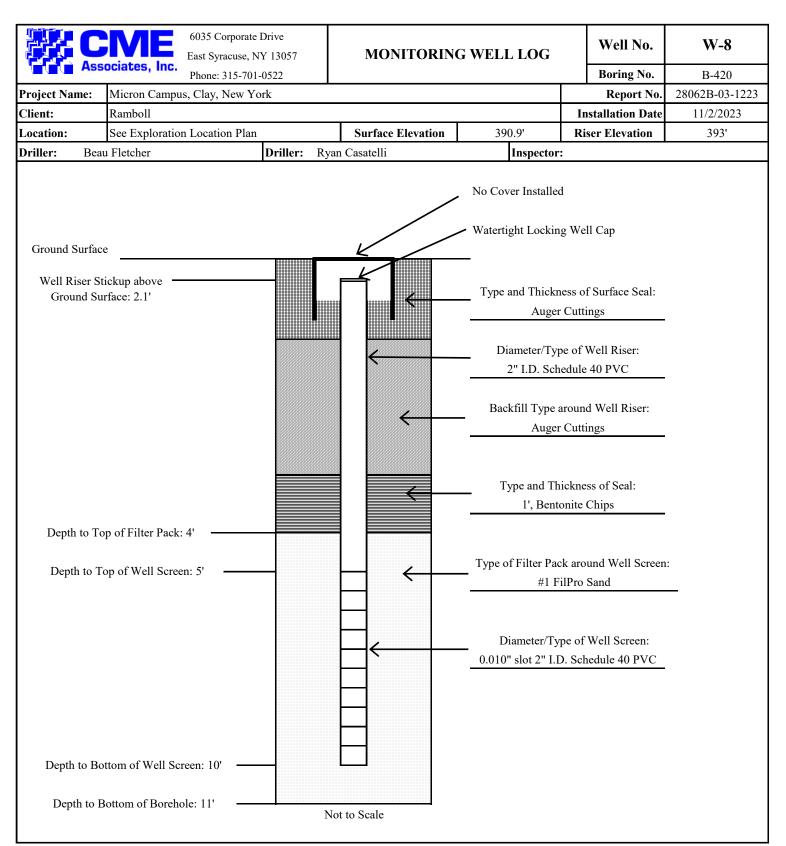
1. See Test Boring Log B-391 for soil information.



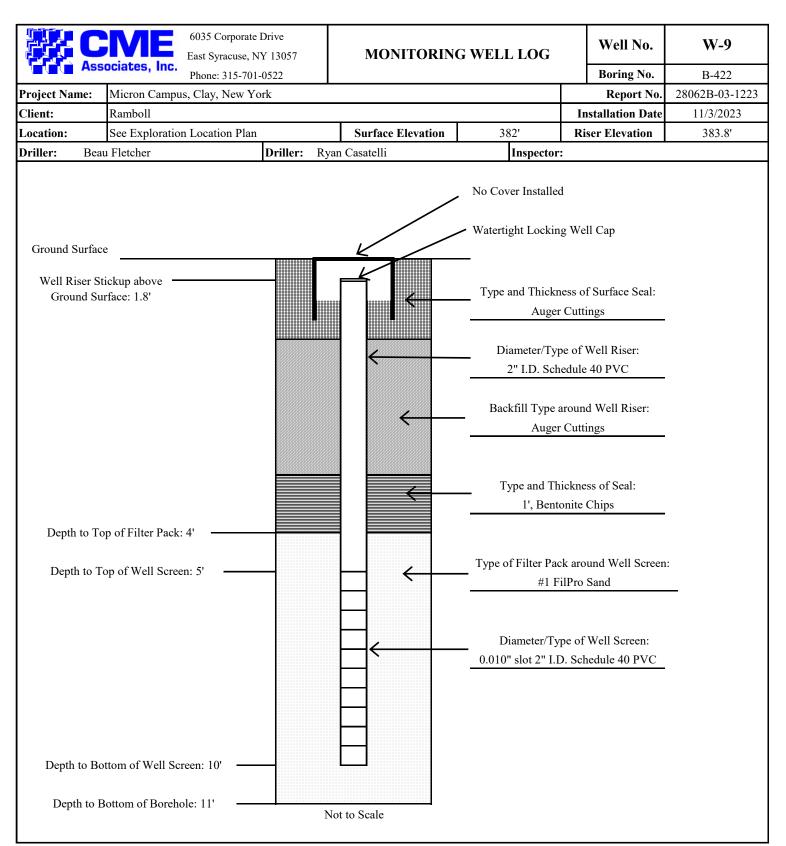
1. See Test Boring Log B-370 for soil information.



1. See Test Boring Log B-400 for soil information.



1. See Test Boring Log B-420 for soil information.



1. See Test Boring Log B-422 for soil information.

Attachment to CME Report No: 28062B-03-1223



Photograph 1

Boring:

B-13

Run 1

Depth

23.8'-28.8'

See Photographs Nos. 2 and 3 for detailed views.



Photograph 2

B-13

Run 1

Top

Depth

23.8'-26.3'



Photograph 3

B-13

Run 1

Bottom

Depth

26.3'-28.8'

Attachment to CME Report No: 28062B-03-1223



Photograph 4

Boring:

B-15

Run 1

Depth

23.8'-28.8'

See Photographs Nos. 5 and 6 for detailed views.



Photograph 5

B-15

Run 1

Top

Depth

23.8'-26.3'



Photograph 6

B-15

Run 1

Bottom

Depth

26.3'-28.8'

Attachment to CME Report No: 28062B-03-1223



Photograph 7

Boring:

B-15

Run 2

Depth

28.8' - 33.8'

See Photographs Nos. 8 and 9 for detailed views.



Photograph 8

B-15

Run 2

Top

Depth

28.8' - 31.3'



Photograph 9

B-15

Run 2

Bottom

Depth

31.3' - 33.8'

Attachment to CME Report No: 28062B-03-1223



Photograph 10

Boring:

B-30

Run 1

Depth

19.0'-24.0'

See Photographs Nos. 11 and 12 for detailed views.



Photograph 11

B-30

Run 1

Top

Depth

19.0'-21.5'



Photograph 12

B-30

Run 1

Bottom

Depth

21.5'-24.0'

Attachment to CME Report No: 28062B-03-1223



Photograph 13

Boring:

B-35

Run 1

Depth

4.0'-9.0'

See Photographs Nos. 14 and 15 for detailed views.



Photograph 14

B-35

Run 1

Bottom

Depth

4.0' - 6.5'



Photograph 15

B-35

Run 1

Bottom

Depth

6.5' - 9.0'

Attachment to CME Report No: 28062B-03-1223



Photograph 16

B-39

Run 1

Bottom

Depth

19.0' - 24.0'

See Photographs Nos. 17 and 18 for detailed views.



Photograph 17

B-39

Run 1

Bottom

Depth

19.0' - 21.5'



Photograph 18

B-39

Run 1

Bottom

Depth

21.5' - 24.0'

Attachment to CME Report No: 28062B-03-1223



Photograph 19

Boring:

B-217

Run 1

Depth

21.9' - 26.9'

See Photographs Nos. 20 and 21 for detailed views.



Photograph 20

B-217

Run 1

Top

Depth

21.9' - 24.4'



Photograph 21

B-217

Run 1

Bottom

Depth

24.4' - 26.9'

Attachment to CME Report No: 28062B-03-1223



Photograph 22

Boring:

B-217

Run 2

Depth

26.9' - 31.9'

See Photographs Nos. 23 and 24 for detailed views.



Photograph 23

B-217

Run 2

Top

Depth

26.9' - 29.4'



Photograph 24

B-217

Run 2

Bottom

Depth

29.4' - 31.9'

Attachment to CME Report No: 28062B-03-1223



Photograph 25

Boring:

B-292

Run 1

Depth

18.5' - 23.5'

See Photographs Nos. 26 and 27 for detailed views.



Photograph 26

B-292

Run 1

Top

Depth

18.5' - 21.0'



Photograph 27

B-292

Run 1

Bottom

Depth

21.0' - 23.5'

Attachment to CME Report No: 28062B-03-1223



Photograph 28

Boring:

B-292

Run 2

Depth

23.5' - 28.5'

See Photographs Nos. 29 and 30 for detailed views.



Photograph 29

B-292

F

Run 2

Top

Depth

23.5' - 26.0'



Photograph 30

B-292

Run 2

n 2

Bottom

Depth

26.0' - 28.5'

Attachment to CME Report No: 28062B-03-1223



Photograph 31

Boring:

B-300

Run 1

Depth

28.0' 33.0'

See Photographs Nos. 32 and 33 for detailed views.



Photograph 32

B-300

.

Run 1

Top

Depth

28.0' - 30.5'



Photograph 33

B-300

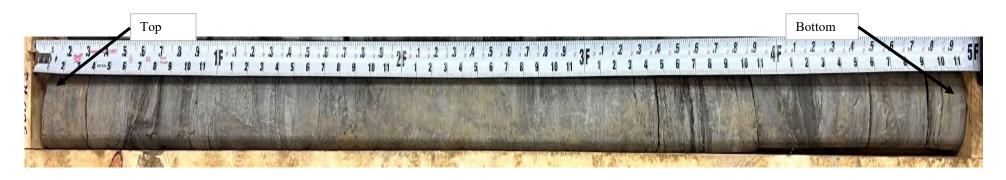
Run 1

Bottom

Depth

30.5' - 33.0'

Attachment to CME Report No: 28062B-03-1223



Photograph 34

Boring

B-300

Run 2

Depth

33.0' -38.0'

See Photographs Nos. 35 and 36 for detailed views.



Photograph 35

B-300

Run 2

Top

Depth

33.0' - 35.5'



Photograph 36

B-300

Run 2

В

Bottom

Depth

35.5' - 38.0'

Attachment to CME Report No: 28062B-03-1223



Photograph 37

Boring

B-366

Run 1

Depth

17.3' - 22.3'

See Photographs Nos. 38 and 39 for detailed views.



Photograph 38

B-366

Run 1

Top

Depth

17.3' - 19.8'



Photograph 39

B-366

Run 1

Bottom

Depth

19.8' - 22.3'

Attachment to CME Report No: 28062B-03-1223



Photograph 40

Boring

B-400

Run 1

Depth

8.8' - 13.8'

See Photographs Nos. 41 and 42 for detailed views.



Photograph 41

B-400

Run 1

Top

Depth

8.8' - 11.3'



Photograph 42

B-400

Run 1

Bottom

Depth

11.3' -13.8'

Attachment to CME Report No: 28062B-03-1223



Photograph 43

Boring

B-400

Run 2

Depth

13.8' - 18.8'

See Photographs Nos. 44 and 45 for detailed views.



Photograph 44

B-400

Run 2

Top

Depth

13.8' - 16.3'



Photograph 45

B-400

Run 2

Bottom

om Depth

16.3' - 18.8'

Attachment to CME Report No: 28062B-03-1223



Photograph 46

Boring

B-426

26 Rı

Run 1

Depth 22.5' - 27.5'

See Photographs Nos. 47 and 48 for detailed views.



Photograph 47

B-426

Run 1

Top

Depth

22.5' - 25.0'



Photograph 48

B-426

Run 1

Bottom

1

Depth

25.0' - 27.5'

Attachment to CME Report No: 28062B-03-1223



Photograph 49

Boring

B-426

Run 2

Depth

27.5' - 32.5'

See Photographs Nos. 50 and 51 for detailed views.



Photograph 50

B-426

Run 2

Top

Depth

27.5' - 30.0'



Photograph 51

B-426

Run 2

Bottom

Depth

30.0' - 32.5'

CME LABORATORY TEST SUMMARY REPORT Page 1 of 22



6035 Corporate Drive East Syracuse, New York 13057 (315) 701-0522 (315) 701-0526 (Fax)

www.cmeassociates.com

LABORATORY TEST SUMMARY REPORT

Micron Campus, Clay, New York CME Report No.: 28062L-03-1123 November 30, 2023 Page 1 of 19

CME Representatives obtained soil samples from Test Borings and Test Pits advanced as part of the Subsurface Exploration Program conducted for the subject project. Selected samples were delivered to CME's East Syracuse facility, an AASHTO re:source¹ accredited laboratory for various laboratory testing. The results are presented below:

Sample ID Notations:B- Test Boring, S- Sample, R- Rock Core Run, ST- Shelby Tube, TP- Test Pit

I. Natural Moisture Content (ASTM D2216)

Sample ID	Natural Moisture	Sample ID	Natural Moisture
	(%)		(%)
B-217; S-1A	34.2	B-300; S-8	25.1
B-217; S-1B	23.6	B-300; S-9	2.7
B-217; S-2	26.7	B-15; S-7	15.1
B-217; S-3	26.8	B-206; S-6	19.2
B-217; S-4	24.6	B-216; S-6	19.8
B-217; S-5	23.2	B-218; S-6	23.3
B-217; S-6	23.5	B-308; S-7	15.0
B-217; S-7	7.6	B-326A; S-6	26.5
B-217; S-8	No Recovery	B-328; S-7	16.2
B-300; S-1	18.5	B-339; S-6	23.1
B-300; S-2	27.4	B-409; S-7	14.2
B-300; S-3	25.0	B-418; S-7	17.2
B-300; S-4	12.8	TP-1; S-1	29.5
B-300; S-5A	26.9	TP-2; S-1	27.0
B-300; S-5B	8.1	TP-3; S-1	11.6
B-300; S-6	6.9	TP-4; S-1	18.1
B-300; S-7	20.6	TP-5; S-1	19.1

¹AASHTO re:source – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. www.AASHTOresource.org.

CME Report No.: 28062L-03-1123

Page 2 of 19



II. **Atterberg Limits Testing (ASTM D4318)**

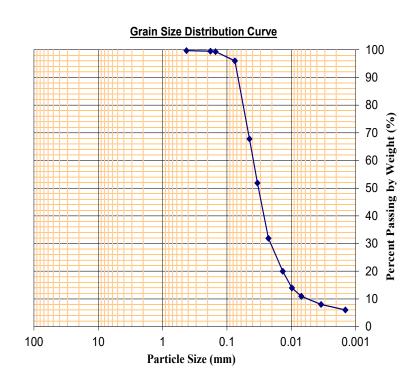
Sample ID	Liquid Limit	Plastic Limit	Plasticity Index	Natural Moisture (%)
B-15; S-7	18	13	5	15.1
B-206; S-6	23	14	9	19.2
B-216; S-6	19	13	6	19.8
B-218; S-6		Non-Plastic		23.3
B-308; S-7	19	12	7	15.0
B-326A; S-6	18	14	4	26.5
B-328; S-7	14	12	2	16.2
B-339; S-6	19	15	4	23.1
B-409; S-7	15	11	4	14.2
B-418; S-7	16	14	2	17.2

Particle Size Analysis (ASTM D422) III.

<u>Sample #</u> B-13; S-6

Classification Grey SILT, trace CLAY, trace fine SAND

Sieve Designation	Size (mm)	Percent Passing by Weight (%)
No.40	0.425	100
No.80	0.180	99
No.100	0.150	99
No.200	0.075	96
Hydrometer	0.045	68
	0.033	52
	0.023	32
	0.014	20
	0.010	14
	0.007	11
	0.003	8.0
	0.001	6.0



ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223 Laboratory Test Summary Report

CME Report No.: 28062L-03-1123

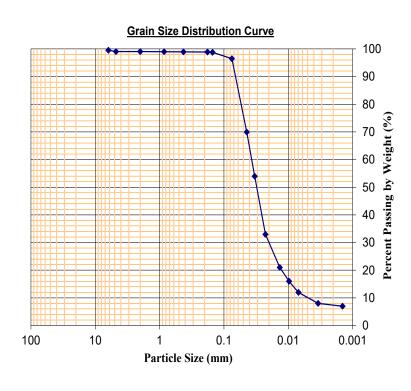
Page 3 of 19



<u>Sample #</u> B-88; S-3

Classification Brown SILT, little CLAY, trace cmf SAND, trace fine GRAVEL

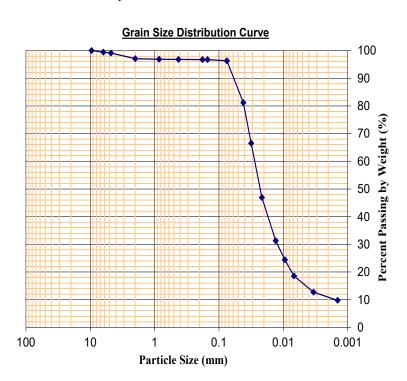
,		Percent
Sieve	Size	Passing by
Designation	<u>(mm)</u>	Weight (%)
1/4"	6.25	100
No.4	4.75	99
No.10	2.00	99
No.20	0.850	99
No.40	0.425	99
No.80	0.180	99
No.100	0.150	99
No.200	0.075	96
Hydrometer	0.044	70
	0.033	54
	0.023	33
	0.014	21
	0.010	16
	0.007	12
	0.003	8.0
	0.001	7.0



Sample # B-207; S-6

Classification Grey SILT, little CLAY, trace cmf SAND, trace fine GRAVEL

D 207, 5	O	Damaam4
	~•	Percent
Sieve	Size	Passing by
Designation	<u>(mm)</u>	Weight (%)
3/8"	9.5	100
1/4"	6.25	99
No.4	4.75	99
No.10	2.00	97
No.20	0.850	97
No.40	0.425	97
No.80	0.180	97
No.100	0.150	97
No.200	0.075	96
Hydrometer	0.042	81
	0.031	66
	0.021	47
	0.013	31
	0.009	24
	0.007	19
	0.003	13
	0.001	10



ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223 Laboratory Test Summary Report

CME Report No.: 28062L-03-1123

Page 4 of 19



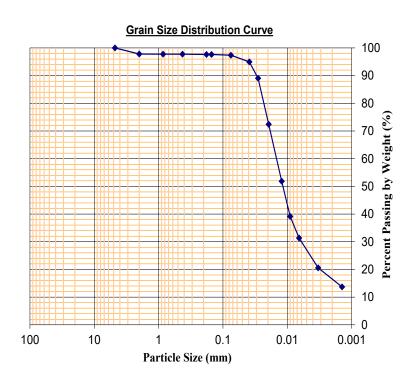
<u>Sample #</u> B-212; S-3

D-212, S-	9	
		Percent
Sieve	Size	Passing by
Designation	(mm)	Weight (%)
No.4	4.75	100
No.10	2.00	98
No.20	0.850	98
No.40	0.425	98
No.80	0.180	98
No.100	0.150	98
No.200	0.075	97
Hydrometer	0.039	95
	0.028	89
	0.019	72
	0.012	52
	0.009	39
	0.007	31
	0.003	21

0.001

14

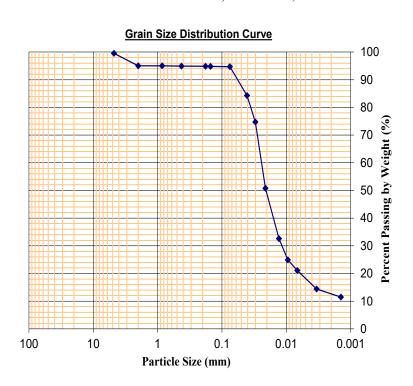
Classification Brown SILT, some CLAY, trace cmf SAND



Sample # B-303; S-3

		Percent
Sieve	Size	Passing by
Designation	(mm)	Weight (%)
No.4	4.75	100
No.10	2.00	95
No.20	0.850	95
No.40	0.425	95
No.80	0.180	95
No.100	0.150	95
No.200	0.075	95
Hydrometer	0.041	84
	0.030	75
	0.021	51
	0.013	33
	0.009	25
	0.007	21
	0.003	14
	0.001	11

Classification Brown SILT, little CLAY, trace cmf SAND



ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223 Laboratory Test Summary Report

Laboratory Test Summary Report CME Report No.: 28062L-03-1123

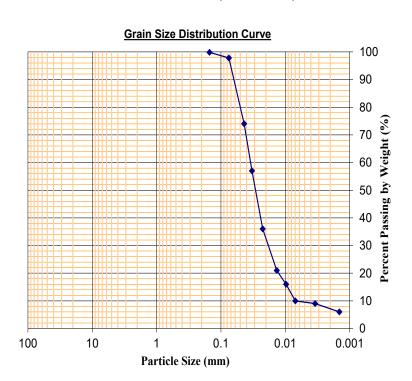
Page 5 of 19



<u>Sample #</u> B-412; S-4

		Percent
Sieve	Size	Passing by
Designation	(mm)	Weight (%)
No.100	0.150	100
No.200	0.075	98
Hydrometer	0.043	74
	0.033	57
	0.022	36
	0.014	21
	0.010	16
	0.007	10
	0.003	9.0
	0.001	6.0

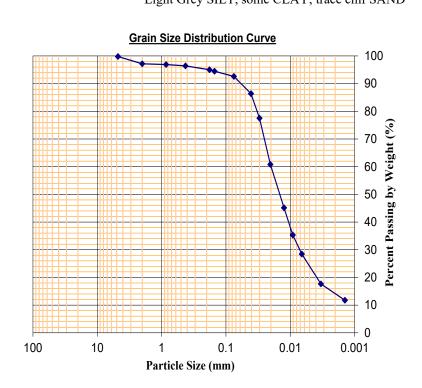
<u>Classification</u> Brown SILT, trace CLAY, trace fine SAND



<u>Sample #</u> B-421; S-6

		Percent
Sieve	Size	Passing by
Designation	(mm)	Weight (%)
No.4	4.75	100
No.10	2.00	97
No.20	0.850	97
No.40	0.425	96
No.80	0.180	95
No.100	0.150	94
No.200	0.075	93
Hydrometer	0.041	86
	0.030	78
	0.020	61
	0.012	45
	0.009	35
	0.007	28
	0.003	18
	0.001	12

<u>Classification</u> Light Grey SILT, some CLAY, trace cmf SAND



ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223

Laboratory Test Summary Report CME Report No.: 28062L-03-1123

Page 6 of 19



<u>Sample #</u> B-428; S-6

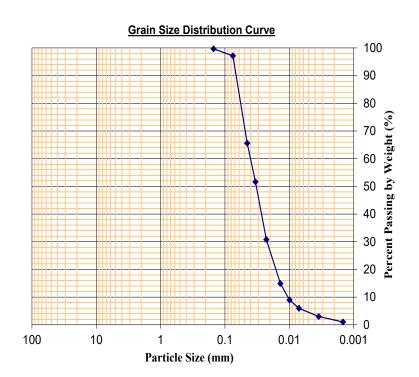
Percent Sieve Passing by Size (mm) **Designation** Weight (%) No.100 0.150100 No.200 0.075 97 Hydrometer 0.045 66 0.03352 0.023 31 0.014 15 8.9 0.010 0.007 6.0 0.003 3.0

0.001

1.0

Classification

Light Brown SILT, trace CLAY, trace fine SAND



IV. Rock Core Compression (ASTM D7012 Method C)

A) Testing Conditions:

Tested by:	H.K.	Mo	isture Condition:	Laboratory air-dry	Equipment:	Forney QC-400-DR
Date of Test:	11/16	/23	Load Direction:	Generally	perpendicula	r to laminations

B) Core Identification and Location:

Core ID	Depth	Description
B-292; R-1	18.6' – 19.1'	Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8" thick) throughout, slightly to moderately weathered, thinly to thickly bedded, medium hard to hard.
B-300; R-1	29.3' – 29.7'	Grey SHALE Bedrock, sound, bedded, medium soft.
B-400; R-1	9.3' – 9.7'	Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8" to 1" thick) throughout, moderately weathered, laminated to medium bedded, medium hard to hard.

C) Core Measurements:

Core ID	Core Diameter (inch)	Length (in.)	Length to Diameter	Mass (g)	Density (lb./ft³)
B-292; R-1	1.97	3.85	1.95	533.43	173
B-300; R-1	2.00	4.03	2.01	553.36	167
B-400; R-1	1.97	3.93	1.99	552.31	176

Laboratory Test Summary Report CME Report No.: 28062L-03-1123

Page 7 of 19

CME LABORATORY TEST SUMMARY REPORT Page 7 of 22

D) Compression Test Results:

Core ID	Specimen Area (inch²)	Total Load (lbs.)	Compressive Strength (psi)	Temperature (°C)	Time to Failure (seconds)	Rate of Loading (psi/sec)
B-292; R-1	3.05	62,000	20,330	22	103.58	196
B-300; R-1	3.14	34,000	10,830	22	89.75	121
B-400; R-1	3.05	43,500	14,260	22	168.22	85

V. DIPRA Test (Appendix A of ANSI/AWWA C105/A21.5)

Table 1- Sample Information					
Sample ID	Sample Depth (ft.)	Sample Description			
B-39; S-3	4.0'-6.0'	Brown cmf SAND and SILT, trace fine GRAVEL (wet, stiff)			
B-162; S-3	4.0'-6.0'	Light Brown SILT, trace fine SAND (moist, stiff)			
B-281; S-3	4.0'-6.0'	Grey/Light Brown cmf GRAVEL, little SILT, trace fine SAND			
B-306; S-3	4.0'-6.0'	Brown/Grey SILT, little CLAY, trace fine SAND (wet, stiff)			
B-401; S-3	4.0'-6.0'	Brown SILT, some cmf SAND, trace mf GRAVEL, trace CLAY (wet, soft)			

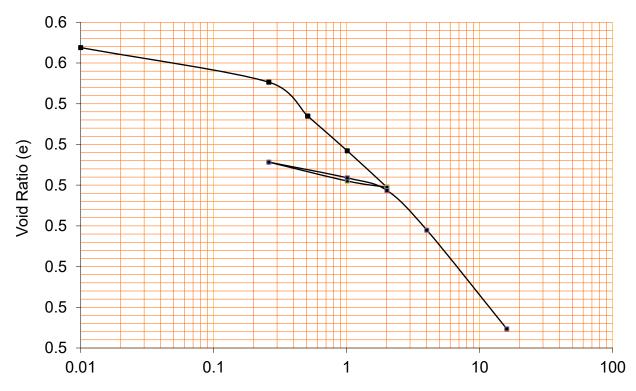
Table 2- DIPRA Test Results							
Sample ID	Resistivity ohm-cm.	Redox Potential (mv)	pН	Sulfides	Moisture	DIPRA Points	
B-39; S-3	14,000	127	7.86	Negative	Poor	2	
B-162; S-3	14,340	126	8.15	Negative	Poor	2	
B-281; S-3	13,940	146	7.21	Negative	Fair	1	
B-306; S-3	4,970	175	7.53	Negative	Poor	2	
B-401; S-3	18,970	165	8.45	Negative	Poor	2	

For a given soil sample, each parameter is evaluated and assigned points as outlined in the form in the Attachment: *Soil Test Evaluation for Ductile Iron Pipe; 10-Point System.* A total of 10 points or more indicates that the soil is potentially corrosive to iron pipe and warrants taking protective measures.

VI. One-Dimensional Consolidation Test (ASTM D2435)

1) Boring: B-206A Sample: ST-1; S-1 (Depth = 14.3')

Vertical Effective Stress vs. Void Ratio



Vertical Effective Stress (TSF)

Pre-consolidation Pressure (P') = N/A (Normally Consolidated)

Compression Index (Cc) = 0.04Re-compression Index (Cr) = 0.01Initial Void Ratio (eo) = 0.55Initial Water Content (Wn) = 21.6%Dry Unit Weight Before Testing (γ _d) = 108.3 pcf Specific Gravity = 2.70

Classification: = Grey SILT and CLAY

Coefficient of Consolidation (Cv):

Vertical Effective Stress	Coefficient of Consolidation (Cv, ft²/month)				
(tsf)	Log of Time Method	Square Root of Time Method	Average		
0.26	4.01	6.86	5.44		
0.51	28.09	36.27	32.18		
1.01	21.07	16.12	18.60		

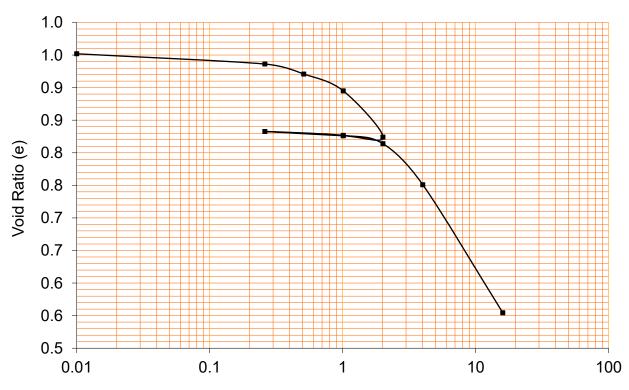
Laboratory Test Summary Report CME Report No.: 28062L-03-1123

Page 9 of 19

1) Boring: B-206A Sample: ST-1; S-2 (Depth = 15.7')

CME LABORATORY TEST SUMMARY REPORT Page 9 of 22 Associates, Inc.

Vertical Effective Stress vs. Void Ratio



Vertical Effective Stress (TSF)

Pre-consolidation Pressure (P') = N/A (Normally Consolidated)

 $\begin{array}{lll} \textbf{Compression Index (Cc)} & = 0.33 \\ \textbf{Re-compression Index (Cr)} & = 0.01 \\ \textbf{Initial Void Ratio (eo)} & = 0.95 \\ \textbf{Initial Water Content (Wn)} & = 32.8\% \\ \textbf{Dry Unit Weight Before Testing } (\gamma_d) & = 88.3 \text{ pcf} \\ \textbf{Specific Gravity} & = 2.76 \\ \end{array}$

Classification: = Grey CLAY and SILT

Coefficient of Consolidation (Cv):

Vertical Effective Stress	Coefficient of Consolidation (Cv, ft²/month)					
(tsf)	Log of Time Method	Square Root of Time Method	Average			
0.26	14.04	21.46	17.75			
0.51	21.07	29.98	25.53			
1.01	2.72	4.80	3.76			

Laboratory Test Summary Report CME Report No.: 28062L-03-1123

Page 10 of 19

CME LABORATORY TEST SUMMARY REPORT Page 10 of 22

VII. Moisture-Density Relationship (ASTM D1557: Modified Proctor)

SAMPLE LOCATION:	Test Pit TP-1	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown Mottled SILT, little CLAY, trace mf GRAVEL,	SAMPLE NO.:	S-1
	trace cmf SAND		

Moisture - Density Relationship Curve

Particle Size Analysis ASTM D422

100

100

100

100

99

97

90

90

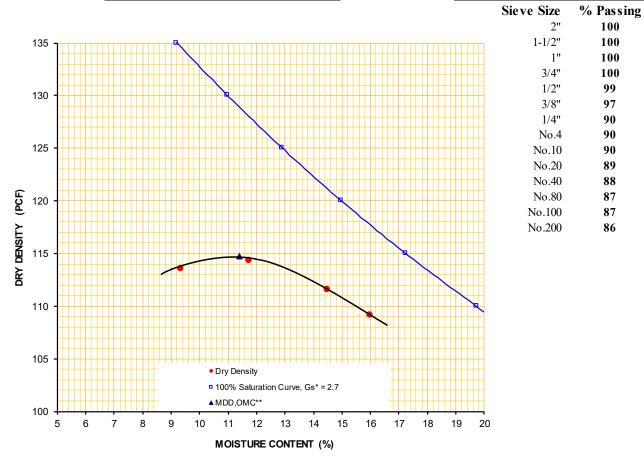
90

89 88

87

87

86



<u>T</u>	est Procedure	Information_		Test Results
Test Method	✓ ASTM D-	557 (Modified)	ASTM D-698 (Standard)	
Procedure Used	□ A	□ B	C	MDD (PCF) = 114.7
Preparation Method	☐ Dry	✓ Moist		OMC(%) = 11.4
Description of Rammer	☐ Manual	✓ Mechanical		. ,
Oversize Fraction by Dry Weig	ht 0 % Retained o	n No.4 Sie	ve □ 3/8" Sieve 🗹 3/	4" Sieve
* Specific Gravity, estimated				
** 1 (DD 11 ' D D	' OMC O .:	M ' 4 C	4 4	

^{**} MDD = Maximum Dry Density, OMC = Optimum Moisture Content

ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223 Laboratory Test Summary Report

CME Report No.: 28062L-03-1123

Page 11 of 19

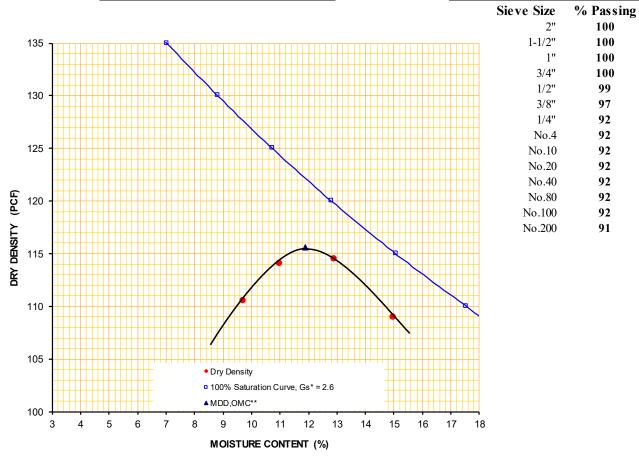
Page 11 of 22



SAMPLE LOCA	ATION:	Test Pit TP-2	DATE SAMPLED:	11/8/23
SOIL CLASSIF	ICATION:	Brown Mottled SILT, little CLAY, trace mf GRAVEL,	SAMPLE NO.:	S-1
		trace mf SAND		

Moisture - Density Relationship Curve

Particle Size Analysis ASTM D422



Tes	st Procedure				Test Results
Test Method	✓ ASTM D-	1557 (Modif	ed) ASTM D-698	(Standard)	
Procedure Used	□ A	□В	▼ C		MDD (PCF) = 115.6
Preparation Method	☐ Dry	✓ Moist			OMC(%) = 11.9
Description of Rammer	☐ Manual	✓ Mecha	inical		
Oversize Fraction by Dry Weigh			0 / Sieve 7 3/8" 9	Sieve 🗹 3/4" Sieve	
	0 % Retained o	n 🗀 🗅	0.4 Sieve 5/6 .	pieve 🖸 3/4 Sieve	
* Specific Gravity, estimated					
** MDD = Maximum Dry Densit	y, OMC = Optin	num Moist	ure Content		

ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223

Laboratory Test Summary Report CME Report No.: 28062L-03-1123

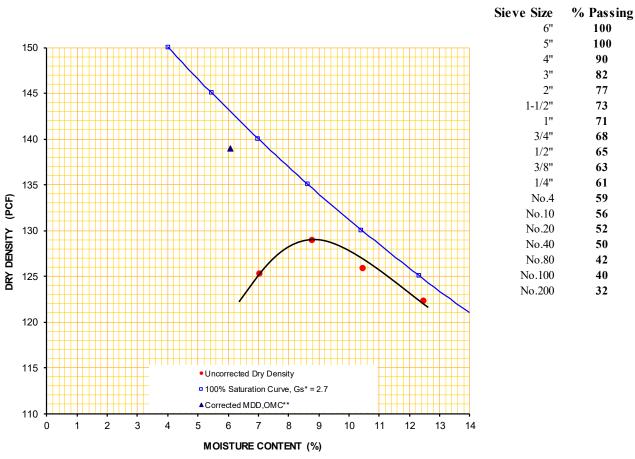
Page 12 of 19

CME LABORATORY TEST SUMMARY REPORT Page 12 of 22

SAMPLE LOCATION:	Test Pit TP-3	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown/Grey SILT, some cmf SAND, some cmf	SAMPLE NO.:	S-1
	GRAVEL, little COBBLES		

Moisture - Density Relationship Curve

Particle Size Analysis ASTM D422



T	est Procedure	Informati	on			Test Results
Test Method	✓ ASTM D-	1557 (Modifie	ed) 🔲 ASTM D	-698 (Standard	d)	
Procedure Used	□ A	□В	✓ C		Corrected I	MDD (PCF) = 138.9
Preparation Method	☐ Dry	✓ Moist			Corrected	OMC (%) = 6.1
Description of Rammer	☐ Manual	✓ Mechai	nical			
Oversize Fraction by Dry Wei	ght 32 % Retained o	n 🗌 No	o.4 Sieve 🔲 3	3/8" Sieve ▼	3/4" Sieve	
* Specific Gravity, estimated						
** MDD = Maximum Dry Dan	city OMC = Ontin	num Maistu	ra Contant			

** MDD = Maximum Dry Density, OMC = Optimum Moisture Content

ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223

Laboratory Test Summary Report CME Report No.: 28062L-03-1123

Page 13 of 19

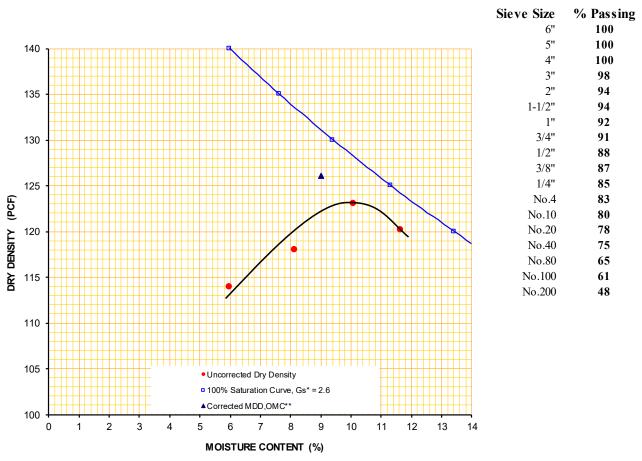
Page 13 of 22



SAMPLE LOCATION:	Test Pit TP-4	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown SILT and cmf SAND, little cmf GRAVEL,	SAMPLE NO.:	S-1
	trace COBBLES		

Moisture - Density Relationship Curve

Particle Size Analysis ASTM D422



T	est Procedure	Informat	ion			Test Results
Test Method	✓ ASTM D-	1557 (Modifi	ied) 🔲 ASTM D-	698 (Standard	d)	
Procedure Used	□ A	□В	▼ C		Corrected	$\frac{1}{2} = \frac{126.1}{1}$
Preparation Method	☐ Dry	✓ Moist			Correcte	d OMC (%) = 9.0
Description of Rammer	☐ Manual	✓ Mecha	nical			
Oversize Fraction by Dry Weig		n 🔲 N	lo.4 Sieve 🔲 3	/8" Sieve ☑	3/4" Sieve	
* Specific Gravity, estimated						
** MDD = Maximum Dry Dens	sity $OMC = Ontin$	num Maieti	ure Content			

MDD = Maximum Dry Density, OMC = Optimum Moisture Content

ATTACHMENT TO CME REPORT NUMBER: 28062B-03-1223 Laboratory Test Summary Report

CME Report No.: 28062L-03-1123

Page 14 of 19

Page 14 of 22



% Passing

SAMPLE LOCATION:	Test Pit TP-5	DATE SAMPLED:	11/8/23
SOIL CLASSIFICATION:	Brown SILT, some cmf SAND, little cmf GRAVEL	SAMPLE NO.:	S-1

Moisture - Density Relationship Curve

Particle Size Analysis ASTM D422

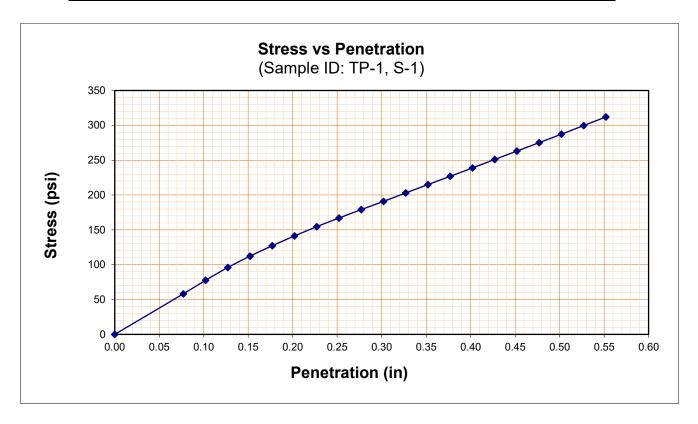
		<u> </u>	Sieve Size
			2"
	140	······································	1-1/2"
			1"
			3/4"
	135		1/2"
	133	<u></u>	3/8"
			1/4"
			No.4
	130		No.10
			No.20
			No.40
CF)	125		No.80
9			No.100
DRY DENSITY (PCF)			No.200
SS	120		
	120		
盗			
_			
	115		
	110		
		Uncorrected Dry Density	
		□ 100% Saturation Curve, Gs* = 2.6	
	105	▲ Corrected MDD,OMC**	
	105 +	1 2 3 4 5 6 7 8 9 10 11 12 13 14 1	5
		MOISTURE CONTENT (%)	
		WOISTORE CONTENT (70)	

<u>Tes</u>	t Procedure 1		Test Results
Test Method	✓ ASTM D-15	557 (Modified) ASTM D-698	3 (Standard)
Procedure Used	□ A	■ B ▼ C	Corrected MDD (PCF) = 123.5
Preparation Method	☐ Dry	✓ Moist	Corrected OMC (%) = 9.1
Description of Rammer	☐ Manual	✓ Mechanical	
Oversize Fraction by Dry Weight	3 % Retained on	☐ No.4 Sieve ☐ 3/8"	Sieve ☑ 3/4" Sieve
* Specific Gravity, estimated			

^{**} MDD = Maximum Dry Density, OMC = Optimum Moisture Content

Page 15 of 19

VIII. CBR (California Bearing Ratio) of Laboratory-Compacted Soils (ASTM D1883)

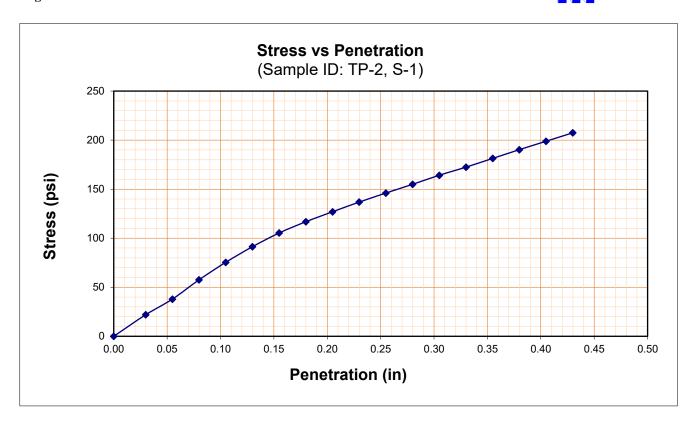


Burmister Classification: Brown Mottled SILT, little CLAY, trace mf GRAVEL, trace cmf SAND

Sample Depth: 2'-4'

As-Molded Moisture Content (%)	14.4
As-Molded Dry Density (pcf)	108.4
No. of Blows	38
Percent Compaction, ASTM D1557	94.5
Time Soaked (hrs)	96
Swell (%)	2.5
Moisture Content After Soaking (%)	
Top 1"	22.5
Center	17.4
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	7.5
Soaked CBR @ 0.2	9.3
Surcharge Weight (lbs.)	10

Page 16 of 19

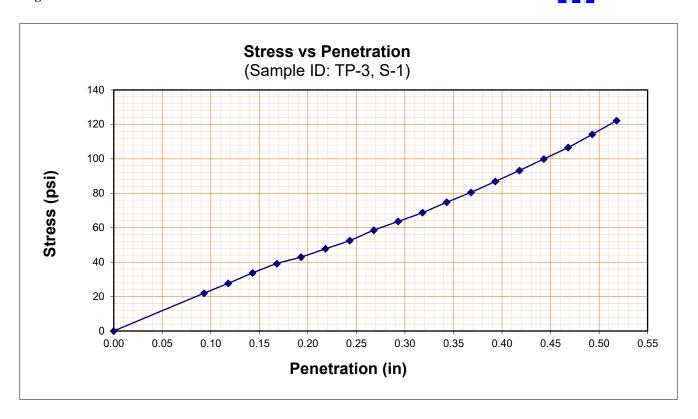


Burmister Classification: Brown Mottled SILT, little CLAY, trace mf GRAVEL, trace mf SAND

Sample Depth: 2' - 4'

As-Molded Moisture Content (%)	14.2
As-Molded Dry Density (pcf)	106.9
No. of Blows	35
Percent Compaction, ASTM D1557	92.5
Time Soaked (hrs)	96
Swell (%)	2.8
Moisture Content After Soaking (%)	
Top 1"	22.4
Center	18.6
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	7.2
Soaked CBR @ 0.2	8.3
Surcharge Weight (lbs.)	10

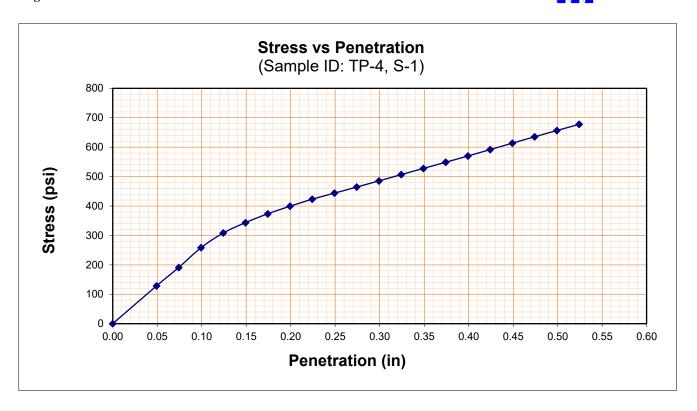
Page 17 of 19



Burmister Classification: Brown/Grey SILT, some cmf SAND, some cmf GRAVEL, little COBBLES **Sample Depth:** 2' – 4'

As-Molded Moisture Content (%)	6.9
As-Molded Dry Density (pcf)	123.9
No. of Blows	37
Percent Compaction, ASTM D1557	89.2
Time Soaked (hrs)	96
Swell (%)	2.6
Moisture Content After Soaking (%)	
Top 1"	15.1
Center	11.4
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	2.4
Soaked CBR @ 0.2	2.9
Surcharge Weight (lbs.)	10

Page 18 of 19



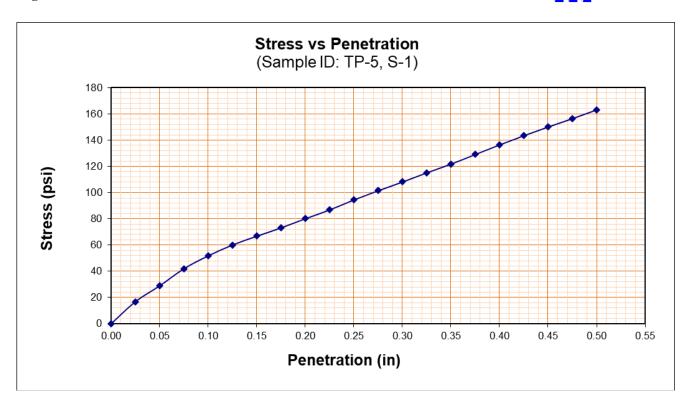
Burmister Classification: Brown SILT and cmf SAND, little cmf GRAVEL, trace COBBLES

Sample Depth: 2' - 4'

As-Molded Moisture Content (%)	10.3
As-Molded Dry Density (pcf)	118.1
No. of Blows	35
Percent Compaction, ASTM D1557	93.7
Time Soaked (hrs)	96
Swell (%)	1.0
Moisture Content After Soaking (%)	
Top 1"	15.5
Center	12.7
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	25.8
Soaked CBR @ 0.2	26.6
Surcharge Weight (lbs.)	10

Laboratory Test Summary Report CME Report No.: 28062L-03-1123

Page 19 of 19



Burmister Classification: Brown SILT, some cmf SAND, little cmf GRAVEL

Sample Depth: 2.5' – 4'

As-Molded Moisture Content (%)	10.3
As-Molded Dry Density (pcf)	116.4
No. of Blows	35
Percent Compaction, ASTM D1557	94.2
Time Soaked (hrs)	96
Swell (%)	3.1
Moisture Content After Soaking (%)	
Top 1"	19.4
Center	14.3
Ring Capacity (lbs.)	6000
Soaked CBR @ 0.1	5.2
Soaked CBR @ 0.2	5.3
Surcharge Weight (lbs.)	10

If you have any questions regarding this report please contact our office.

Hannah Kloiber for

Laboratory Supervisor

Attachments:

Rock Core Photographs (2 of 2)

Soil Test Evaluation for Ductile Iron Pipe; 10-Point System (1 of 1)

Rock Core Photographs

Page 1 of 2





B-292; R-1 Before Compression (18.6'-19.1')



B-292; R-1 After Compression (18.6'-19.1')



B-300; R-1 Before Compression (29.3'-29.7')



B-300; R-1 After Compression (29.3'-29.7')

CME LABORATORY TEST SUMMARY REPORT Page 21 of 22

CME Report No.: 28062L-03-1123

Rock Core Photographs

Page 2 of 2





B-400; R-1 Before Compression (9.3'-9.7')



B-400; R-1 After Compression (9.3'-9.7')

Soil Test Evaluation for Ductile Iron Pipe (10-Point System)*

Soil Characteristics	Points	
Resistivity (ohm-cm)**		Moisture
<1,500	10	Poor drainage,
$\geq 1,500-1,800$	8	continuously wet
>1,800-2,100	5	Fair drainage,
>2,100-2,500	2	generally moist
>2,500-3,000	1	Good drainage,
>3,000	0	generally dry
pH		2 , ,
0-2	5	
2-4	3	*Ten points-corrosive to Ductile Iron Pipe.
4-6.5	0	Protection is indicated.
6.5-7.5	0***	**Based on water-saturated soil box. This
7.5-8.5	0	method is designed to obtain the lowest-
>8.5	3	and most accurate-resistivity reading.
Redox potential		***If sulfides are present; and low (<100mv)
>+100mv	0	or negative redox-potential results are
+50 to +100mv	3.5	obtained, 3 points should be given for
0 to +50mv	4	this range.
Negative	5	Note: DIPRA recommends that the soils sample used
Negative	3	in the 10-point evaluation to be taken at pipe depth
Sulfides		rather than at the surface. Soil corrosivity readings
Positive	3.5	can vary substantially from the surface to pipe depth.
Trace Negative	2 0	



The groundwork for success.

Micron Campus	File Number:	2328700	
Clay, NY	Date:	7-Dec-23	
CME Associates, Inc.	CMT I. D. No.:	18436	
	Clay, NY	Clay, NY Date:	Clay, NY Date: 7-Dec-23

Summary of Test Results - Potentially Expansive Rock Testing

Date Received:

30-Nov-23

Date Tested:

5-Dec-23

Sample Location:

B-30, R-1, 7.0'-7.5'

Test	Test Method	Result
Neutralization Potential (%CaCO ₃)	DEP OB Man	83.50%
Total Sulfur	PA DEP OM p54	0.56%
Sulfate Sulfur	PA DEP OM p54	0.02%
Pyritic Sulfur	PA DEP OM p54	0.50%
Organic Sulfur	PA DEP OM p54	0.04%

CMT Laboratories, Inc.

CMT Laboratories, Inc.

2701 Carolean Industrial Drive, State College, PA 16801 Phone: (814) 231-8845 www.cmtlabsinc.com



The groundwork for success.

Project:	Micron Campus	File Number:	2328700
Location:	Clay, NY	Date:	7-Dec-23
Client:	CME Associates, Inc.	CMT I. D. No.:	18437

Summary of Test Results - Potentially Expansive Rock Testing

Date Received:

30-Nov-23

Date Tested:

5-Dec-23

Sample Location:

B-35, R-1, 4.0'-4.5'

Test	Test Method	Result
Neutralization Potential (%CaCO ₃)	DEP OB Man	97.60%
Total Sulfur	PA DEP OM p54	0.02%
Sulfate Sulfur	PA DEP OM p54	0.01%
Pyritic Sulfur	PA DEP OM p54	<0.01%
Organic Sulfur	PA DEP OM p54	0.01%

CMT Laboratories, Inc.

CMT Laboratories, Inc.

2701 Carolean Industrial Drive, State College, PA 16801 Phone: (814) 231-8845 www.cmtlabsinc.com



The groundwork for success.

Project:	Micron Campus	File Number:	2328700	
Location:	Clay, NY	Date:	7-Dec-23	
Client:	CME Associates, Inc.	CMT I. D. No.:	18438	

Summary of Test Results - Potentially Expansive Rock Testing

Date Received: 30-Nov-23 Date Tested: 5-Dec-23
Sample Location: B-400, R-1, 8.8'-9.2'

Test	Test Method	Result
Neutralization Potential (%CaCO ₃)	DEP OB Man	98.70%
Total Sulfur	PA DEP OM p54	0.09%
Sulfate Sulfur	PA DEP OM p54	0.01%
Pyritic Sulfur	PA DEP OM p54	0.06%
Organic Sulfur	PA DEP OM p54	0.02%

CMT Laboratories, Inc.

CMT Laboratories, Inc.

2701 Carolean Industrial Drive, State College, PA 16801 Phone: (814) 231-8845 www.cmtlabsinc.com



November 20, 2023

Project No. 2023-294-003

Ms. Hannah Kloiber CME Associates, Inc. 6035 Corporate Drive East Syracuse, NY 13057

<u>Transmittal</u> <u>Laboratory Test Results</u> Micron 28062

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens that were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectfully submitted, *Geotechnics*, *Inc*.

Nathan Melaro Director of Operations

We understand that you have a choice in your laboratory services and we thank you for choosing Geotechnics.



CHLORIDE ION CONTENT IN SOILS

AASHTO T 291 - 94 (2018) (Method B)

Client:CME Associates, Inc.Boring No.:RambollClient Reference:Micron 28062Depth (ft):NAProject No.:2023-294-003Sample No.:TP-1Lab ID:2023-294-003-001Description:Brown Soil

(- # 10 Sieve material)

CHLORIDE STANDARD: CALIBRATION CURVE

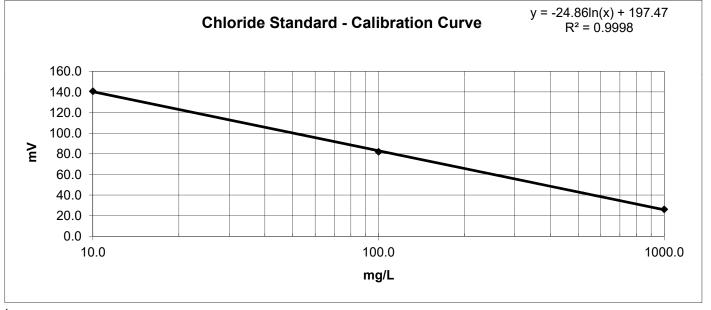
STANDARD		M <u>ILLIVOL</u> TS (mV)
10.0	mg/L	140.7
100.0	mg/L	82.0
1000.0	mg/L	26.2

MEASUREMENT OF CHLORIDES

Sample Weight (g):	100.0	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	100.0	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	25.0		
Sample Reading (mV):	150.1	6.72	6.72

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO₃ solution (1:1 volume).

2) Samples were dried for a minimum of 12 hours at 110 ⁺/₋ 5°C.



Notes:

Tested By JAM Date 11/17/23 Checked By NJM Date 11/17/23



Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client: CME Associates, Inc. Boring No.: Ramboll
Client Reference: Micron 28062 Depth (ft): NA
Project No.: 2023-294-003 Sample No.: TP-1
Lab ID: 2023-294-003-001 Soil Description: Brown Soil

Sulfate Standard - Calibration Curve Spectrophotometer Readings

Sulfate Ion Concentrations (mg/L)

0.0 4.0 10.0 20.0 30.0 40.0 60.0 80.0 100.0

Spectrophotometer Readings (FAU)

Underrange Underrange 6 17 35 58 107 166 229

Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl₂ 2H₂O)

Sample Weight (g): 100.0 Sample Moisture Content

Water added to Sample (mL):300.0Tare Number:872Size of Sample Aliquot (mL):50.0Weight of Tare & Wet Sample (g):270.09Sample Reading (FAU):47Weight of Tare & Dry Sample (g):261.19

Weight of Tare (g): 201.19
Weight of Tare (g): 109.88

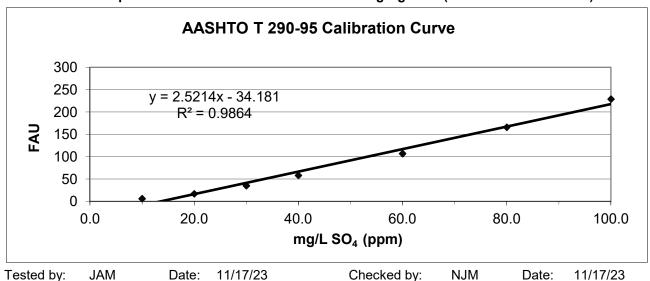
Sample Diluted:NoWeight of Water (g):8.90

Weight of Dry Sample (g): 151.31
Moisture Content (%): 5.88

Sulfate Solution Added (ml): 0

Sample Sulfate Ion Concentration: 32.20 mg/L SO₄ (ppm)

Sample Sulfate Ion Content: 96.6 mg/Kg SO₄ (not corrected for moisture)
Sample Sulfate Ion Content: 102.6 mg/Kg SO₄ (corrected for moisture)



page 1 of 1 DCN: CT-S87 DATE: 3/5/2020 REVISION: 1



CHLORIDE ION CONTENT IN SOILS

AASHTO T 291 - 94 (2018) (Method B)

Client:CME Associates, Inc.Boring No.:RambollClient Reference:Micron 28062Depth (ft):NAProject No.:2023-294-003Sample No.:TP-2Lab ID:2023-294-003-002Description:Brown Soil

(- # 10 Sieve material)

CHLORIDE STANDARD: CALIBRATION CURVE

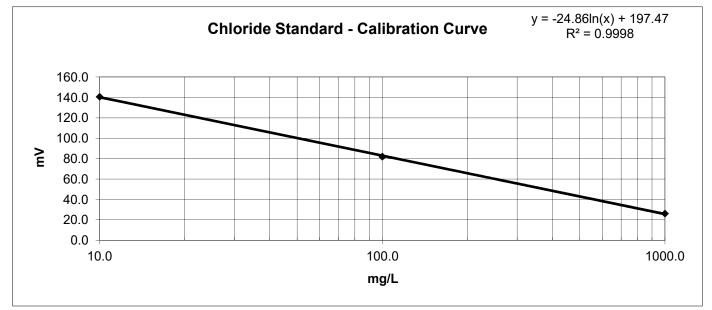
STANDAR	<u>D</u>	M <u>ILLIVOL</u> TS
		(mV)
10.0	mg/L	140.7
100.0	mg/L	82.0
1000.0	mg/L	26.2

MEASUREMENT OF CHLORIDES

Sample Weight (g):	100.0	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	100.0	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	25.0		
Sample Reading (mV):	162.3	4.11	4.11

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO₃ solution (1:1 volume).

2) Samples were dried for a minimum of 12 hours at 110 ⁺/₋ 5°C.



Notes:

Tested By	JAM	Date	11/17/23	Checked By	NJM	Date	11/17/23

page 1 of 1 DCN: CT-S63A DATE: 6/2/14 REVISION: 1





Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

Client: CME Associates, Inc. Boring No.: Ramboll
Client Reference: Micron 28062 Depth (ft): NA
Project No.: 2023-294-003 Sample No.: TP-2
Lab ID: 2023-294-003-002 Soil Description: Brown Soil

Sulfate Standard - Calibration Curve Spectrophotometer Readings

Sulfate Ion Concentrations (mg/L)

0.0 4.0 10.0 20.0 30.0 40.0 60.0 80.0 100.0

Spectrophotometer Readings (FAU)

Underrange Underrange 6 17 35 58 107 166 229

Measurement of Barium Chloride Turbidity

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl₂ 2H₂O)

Sample Weight (g): 100.0 Sample Moisture Content

Water added to Sample (mL):300.0Tare Number:1717Size of Sample Aliquot (mL):50.0Weight of Tare & Wet Sample (g):227.88Sample Reading (FAU):8Weight of Tare & Dry Sample (g):222.91

Weight of Tare (g): 82.60

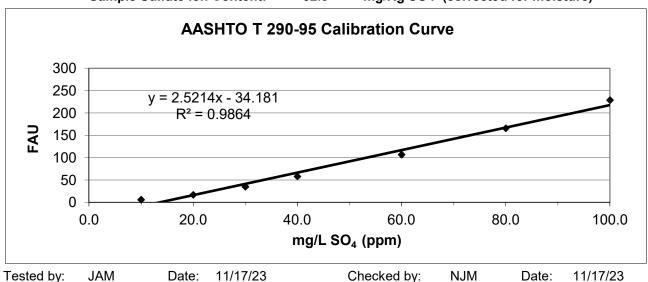
Sample Diluted: No Weight of Water (g): 4.97 Weight of Dry Sample (g): 140.31

Moisture Content (%): 3.54

Sulfate Solution Added (ml): 0

Sample Sulfate Ion Concentration: 16.73 mg/L SO₄ (ppm)

Sample Sulfate Ion Content: 50.2 mg/Kg SO₄ (not corrected for moisture)
Sample Sulfate Ion Content: 52.0 mg/Kg SO₄ (corrected for moisture)



page 1 of 1 DCN: CT-S87 DATE: 3/5/2020 REVISION: 1

				6035 C	orporate Drive	SI	JBSURF	ACE EX	PL	ORATION	Boring No.	В	-13
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 2
		ociates	S. Land	i none.	315-701-0522		11231	DOM	10.	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		06/23
Client:		Rambo									Date Finished		06/23
Locatio	n:			n Locati		3.7	1		C T		Surface Elev.		1.1'
- · · · ·				DS OF	INVESTIGATIO		*** 0		GR	OUNDWATER	OBSERVAT	IONS	
Driller: Driller:		B. Flet Chris C			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			Sharm	a. EIT	Other:	NQ-Cor	e	09/06/23		While Drilling	8.2	1	8.5
Drill Ri		CME 5		u, 211	Soil Sampler:	-	plit Barrel	09/06/23		re Casing Removed	9.0		3.8
Type:	•	ATV			Hammer Wt:	140 lbs.	•	09/06/23		er Casing Removed	5.1 *	(out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		09/06/23		er Casing Removed	caved @ 5.5	(out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	e Depth	T. /	Blows on	D 4 6	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 359	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/20	1-2-3-5				-	e fine SAND, trace	e CLAY, trace R	COOTS	5
							(moist, med	dium stiff)				
1													
_		•		22/10			_			<i>a a</i>	GT 1.TT /		0
2	2	2.0	4.0	SS/19	5-5-4-3		Brown mot	tled SILT	, trac	e fine SAND, trace	e CLAY (wet, st	111)	9
,													
3													
4	3	4.0	6.0	SS/16	2-3-5-6		Similar as	obovo (wa	t atit	PF)			8
4	3	4.0	0.0	33/10	2-3-3-0		Sillillai as	above (we	i, Siii	11)			0
5	1												
6	4	6.0	8.0	SS/15	6-7-6-7		Similar as	above (we	t. stif	f)			13
									,	,			
7													
8	5	8.0	10.0	SS/12	4-5-7-6		Brown SIL	T, trace fi	ne S	AND, trace fine GI	RAVEL, trace C	LAY	12
							(wet, stiff)						
9													
1.0													
10													
11													
11													
12													
13													
	6	13.5	15.0	SS/12	3-2-4		Grey SILT	, trace CL	AY,	trace fine SAND (wet, medium sti	ff)	6
14													
15													
1.0													
16													
17													
1 /													
18							Augered ho	ard from 1	8.0'				
	7	18.5	20.0	SS/10	13-5-6					nf SAND, little SII	LT, little CLAY	(wet.	11
19	'						medium co			,	,	. 7	
								- /					
20	1			I	1	1	Continued	on Dogo 2					1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

*Water added to borehole during coring process.

Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-13** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler and - 35 to 50% / some - 20 to 35% m - medium Sample Change or From То Per 6 Inches RQD % (Feet) No. Rec. (in.) (Ft.) f - fine little - 10 to 20% / trace - 0 to 10% 20 Continued from Page 1 21 22 23 8 23.5 23.6 SS/1 100@1" Grey ROCK chips and fragments (wet) 100 +Auger refusal @ 23.8' 23.8' to 26.0': Dark Grey interbedded SHALE and DOLOSTONE, 67% 24 R-1 23.8 28.8 C/60 NQ-Core slightly weathered, laminated to medium bedded, medium hard. 25 26.0' to 28.8': Dark Grey DOLOSTONE with interbedded SHALE (1/8" to 1/4" layers), slightly weathered, thinly to medium bedded, 26 Horizontal fractures at 26.0', 27.1' and 28.3'. 27 Recovery: 60''/60'' = 100% | RQD = 40''/60'' = 67%12 pieces, 2" Chips and fragments 1:30 min/ft, no water loss 28 Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure. 29 Bottom of Boring @ 28.8' 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

				6035 Co	orporate Drive	CI	IDCLIDE	A CE EX	DI 4	ORATION	Boring No.	В-	-15
		IV		East Sy	racuse, NY 13057	St					Page No.		of 2
	Asso	ciates	, Inc.	Phone:	315-701-0522		IESI	BORI	NG	LUG	Report No.	28062B	-03-1223
Project	Name:	Micron	Campi	us, Clay,	New York						Date Started	09/0)5/23
Client:		Rambo	11								Date Finished	09/0)5/23
Locatio	n:			n Locati							Surface Elev.		4.0'
				DS OF	INVESTIGATIO				GR	OUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		Chris C		- EIT	Casing Hammer:	NO C		09/05/23					
Inspecto Drill Ri		Asitwa CME 5		a, EH	Other:	NQ-Cor	e Split Barrel	09/05/23		While Drilling are Casing Removed	None Noted 2.7 *		3.8
Type:	_	ATV	30A		Soil Sampler: Hammer Wt:	2 OD S	-	09/05/23		er Casing Removed	5.0 *		out
Rod Siz		AWJ			Hammer Fall:	30 in.		09/05/23		er Casing Removed	caved @ 27.2		out
Ttou SIZ			BORI	NG SA	AMPLES	30 m.	VIS			SIFICATION C	Ú		
- I	LO	ı	Depth						2710		T WITTER		CDT ID III
Depth Scale	Sample	Sample (F		Type / Sample	Blows on Sampler	Depth of		coarse medium		and - 35 to 50	% / some - 20 to 359	2/2	SPT "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/24	1-2-3-4		Grey/Brow	n SILT, li	ttle n	nf SAND, little CL			5
							(moist, med						
1													
2	2	2.0	4.0	SS/15	4-4-5-5		Brown mot	ttled SILT	, trac	e fine SAND, trace	e CLAY (wet, st	iff)	9
3													
4	3	4.0	6.0	SS/17	5-5-7-9		Danarra CII	т 1:441 г.С	T A 37	tuana fina CAND	(verst stiff)		12
4	3	4.0	0.0	35/1/	3-3-7-9		Brown SIL	, i, iille C	LAI	, trace fine SAND	(wet, still)		12
5													
6	4	6.0	8.0	SS/14	5-9-8-9		Brown SIL	T, little C	LAY	, trace fine SAND,	trace fine GRA	VEL	17
							(wet, very						
7													
8	5	8.0	10.0	SS/15	6-8-11-14		Brown SIL	T, little ci	nf SA	AND, trace fine GF	RAVEL (wet, ve	ry stiff)	19
0													
9													
10													
10													
11													
12													
13		10.5	150	96.10	2.2.2					111 6		30	
1.4	6	13.5	15.0	SS/9	2-3-2		Grey SILT	, some CL	ΔΑΥ,	little fine SAND (v	wet, medium stif	1)	5
14													
15													
13													
16													
17													
18												-	
10	7	18.5	20.0	SS/18	1-1-1				some	e SILT, little fine C	GRAVEL, trace of	emf	2
19							SAND (we	et, soft)					
20								D 2					

20 Continued on Page 2
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
Remarks: * Water added for coring.

CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-15

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

VISUAL CLASSIFICATION OF MATERIAL **LOG OF BORING SAMPLES** Sample Depth SPT "N" Depth Blows on c - coarse Depth of Type / (Ft.) Scale Sample Sampler and - 35 to 50% / some - 20 to 35% m - medium Sample Change or From Per 6 Inches ROD % (Feet) No. To Rec. (in.) (Ft.) f - fine little - 10 to 20% / trace - 0 to 10%20 Continued from Page 1 21 22 23 8 23.5 23.5 SS/0 100@0" No Recovery. See Remark 1 100 +Auger refusal @ 23.8' Dark Grey/Black SHALE with interbedded DOLOSTONE, slightly 87% 24 R-1 23.8 28.8 C/60 NQ-Core weathered, thinly bedded, medium hard. 25 Broken zone @ 24.1' to 24.5'. Recovery: 60''/60'' = 100% | RQD = 52''/60'' = 87%26 15 pieces, 2" Chips and fragments 1:45 min/ft, no water loss 27 Coring conducted in 5th grear, 2000 rpm, 500 psi down pressure. 28 R-2 28.8 C/60 NQ-Core Dark Grey/Black DOLOSTONE with interbedded SHALE, slightly 95% 33.8 29 weathered, thinly to medium bedded, medium hard. Recovery: 60''/60'' = 100%30 RQD = 57''/60'' = 95%13 pieces, 1" Chips and fragments 31 1:32 min/ft, no water loss Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure. 32 33 Bottom of Boring @ 33.8' 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. Grey ROCK chips and fragments on spoon top

	C	V	E	East Sy	orporate Drive	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	-18 of 2
		ociate		i none.	315-701-0522		1201	DOM	. 10		Report No.		3-03-1223
Project	Name:			us, Clay,	, New York						Date Started		05/23
Client:		Rambo		· .	. 1						Date Finished		05/23
Locatio	n:	-	_	n Locati		NT.			CI	DOLLNINGATEL	Surface Elev.		91.9'
Driller:		B. Flet		DS OF	INVESTIGATIO Casing:	3 ¼" ID	нсл		Gi	ROUNDWATER	T OBSERVAT		
Driller:		Chris (Casing: Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspect			Sharm	a FIT	Other:			09/05/23		While Drilling	12.7	1	8.5
Drill Ri		CME 5		u, L11	Soil Sampler:	2" OD S	Split Barrel	09/05/23	Bef	ore Casing Removed	5.7		22
Type:	ъ.	ATV			Hammer Wt:	140 lbs.	-	09/05/23		ter Casing Removed	4.6		out
Rod Siz	ze:	AWJ			Hammer Fall:	30 in.		09/05/23		ter Casing Removed	caved @ 4.8'	(out
	LO	G OF	BOR	ING S	AMPLES		VI	SUAL C		SSIFICATION (OF MATERIA	L	
Depth		T	e Depth		Blows on			- coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	*	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/20			Brown SIL	T, trace f	ine S	AND, trace CLAY	, trace ROOTS	(moist,	6
							medium sti	iff)					
1													
2	2	2.0	4.0	SS/17	5-6-6-8		Brown mo	ttled SILT	e CLAY (moist,	stiff)	12		
2													
3													
4	3	4.0	6.0	SS/18	5-5-5-5		Cimilar og	ahaya (xx	.t at:	(ff)			10
4	3	4.0	0.0	33/18	3-3-3-3		Similar as	above (we	et, su	111)			10
5	_												
3													
6	4	6.0	8.0	SS/15	6-5-7-9		Similar as	above (we	et. sti	iff)			12
									,)			
7													
8	5	8.0	10.0	SS/20	5-6-7-7		Similar as	above (we	et, sti	iff)			13
9													
10	_												
10													
11													
11													
12						1							
						1							
13						1							
	6	13.5	15.0	SS/11	2-3-4		Grey SILT	, little CL	ΑY,	trace fine SAND, (wet, medium sti	ff)	7
14						1							
	_					1							
15						1							
1.0						1							
16							Augonad	ravells @	16 5	·,			
17							Augered gr	ruveny @	10.3	1			
1/													
18													
	7	18.5	20.0	SS/10	5-7-8	1	Grey cmf S	SAND, so	me f	ine GRAVEL, little	SILT (wet, med	dium	15
19						1	compact)						
20	i	1		1	Ī		10 1	D 0					

CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-18

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522						Report No. 28062B-03-1223							
	LOG OF BORING SAMPLES						VISUAL CLASS		L					
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%					
20	110.	Tiom	10	Kec. (III.)	1 ci o menes	(11.)	Continued from Page 1	Httic - 10 to 2	20/07 trace - 0 to 10/	0 KQD 70				
21														
22	8	22.0	22.0	SS/0	100@0"		Auger refusal @ 22.0' No Recovery. See Remark Bottom of Boring @ 22.0'	1		100+				
23							Bottom of Boring (#, 22.0							
24														
25														
26														
27														
28														
29														
30														
31														
32 33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
45														

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. Grey ROCK chips and fragments on spoon top

				6035 C	orporate Drive	SI	JBSURF	ACE EX	(PL	ORATION	Boring No.	В	-19	
		LV	Ę		racuse, NY 13057			BORII			Page No.		of 2	
	10000000	ociates	S DAY	i none.	315-701-0522		11231	DOM	.10	LOG	Report No.		3-03-1223	
Project	Name:			us, Clay,	, New York						Date Started		06/23	
Client:		Rambo									Date Finished		06/23	
Locatio	n:			n Locati							Surface Elev.		91.8'	
				DS OF	INVESTIGATIO				GR	ROUNDWATER	ROBSERVAT	IONS		
Driller:		B. Flet Chris (Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)	
Driller: Inspect) Hara 1 Sharm	a FIT	Casing Hammer: Other:			09/06/23		While Drilling	None Noted		4.0	
Drill Ri		CME 5		а, Еп	Soil Sampler:	2" OD S	Split Barrel	09/06/23		ore Casing Removed	8.5		3.5	
Type:	ь.	ATV	75011		Hammer Wt:	140 lbs.	-	09/06/23		er Casing Removed	10.3		out	
Rod Siz	e:	AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @ 22.1		out	
		G OF	BOR	ING S	AMPLES		VI			SIFICATION C	_	L		
Danish			e Depth		Blows on								SPT "N"	
Depth Scale	Sample	(F	_	Type / Sample	Sampler	Depth of Change		- coarse medium		and - 35 to 50	0% / some - 20 to 35°	0/0	or	
(Feet)	No.	From	То	Rec. (in.)	1	(Ft.)		- fine			20% / trace - 0 to 109		RQD %	
0	1	0.0	2.0	SS/13	1-4-4-6			T, trace n	nf SA	ND, trace CLAY,	trace ROOTS (r	noist,	8	
							stiff)							
1						1								
_				~~ (2.1			-	.1 1 0 7 7		22.275	GT 1.TT /		10	
2	2	2.0	4.0	SS/21	4-5-5-5	Brown mottled SILT, trace mf SAND, trace CLAY (moist, stiff)								
2														
3														
4	3	4.0	6.0	SS/20	4-3-4-3		Drown CII	T trace f	ina S	AND, trace CLAY	(wat madium s	+;ff)	7	
4	3	4.0	0.0	33/20	4-3-4-3		DIOWII SIL	i, nace i	ine s.	AND, HACE CLAT	(wet, illedium s	1111)	/	
5	1													
6	4	6.0	8.0	SS/15	3-4-4-5		Similar as	above (we	et, sti	ff)			8	
								`		,				
7														
8	5	8.0	10.0	SS/22	4-5-6-7		Similar as	above (we	et, sti	ff)			11	
_														
9														
10	ł													
10														
11														
''														
12						1								
						1								
13														
	6	13.5	15.0	SS/16	7-10-12	1	Similar as	above (we	et, vei	ry stiff)			22	
14						1								
<u> </u>						1								
15														
17														
16														
17						1								
1/						1								
18						1								
	7	18.5	20.0	SS/5	3-4-2		Grey cmf S	SAND and	l mf (GRAVEL, little SI	LT, trace CLAY	(wet,	6	
19							loose)			,	•	,		
						1								
20	I	Ī		I		1	Continued	on Dogo 2	,					

CME Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-19

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

					315-701-0522	Report No. 28							
					AMPLES	VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample	e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	thange m - medium and - 35 to 50% / some - 20 to 35%						
20	NO.	Pioni	10	Rec. (III.)	1 ci o inches	(11.)	Continued from Page 1	ntite - 10 to	20/07 trace - 0 to 10/0	RQD %			
21							Augered gravelly @ 21.0'						
22													
23	8	23.5	24.8	SS/5	13-23-100@3"		Dark Grey ROCK fragme	nts, trace SILT (m	noist)	100+			
24							Augar rafugal @ 24.8'						
25							Auger refusal @ 24.8' Bottom of Boring @ 24.8'						
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40	1												
41													
42													
43													
44													
45	1												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

Test Boring Log Page Name: New York Date Finished New York Date Finished New York				F		orporate Drive	SU	J BSURF A	ACE EX	PLO	ORATION	Boring No.		-30
Project Name Micro Campus, Clay, New York Date State 0907/23		Acer	ciatos	Inc				TEST	BORI	NG I	LOG	Ü		
Chient Rambol Cheents Cheent				N LINE OF	I moner.							_		
		Name:			us, Clay,	New York								
METHODS OF INVESTIGATION GROUNDWATER OBSERVATIONS						~-								
Differ Chris O'Ham Casing Hammer: Casing Hammer Casi	Location	n:					N.T.			CD	OLDIDAY A TED			2.3'
Defilier Chris O'Ham	D 31				DS OF			II C A	1	GK	COUNDWATER	OBSERVAI	IONS	
						_	3 ¼" ID	н.5.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Drift Right CARE 550X Solt Sampler: Hammer Wit: Hammer Full: 30 in. 09/07/23 Before Casing Removed 3.9 * 7		r.			a FIT	_	NO-Cor	e	09/07/23		While Drilling	2.8	Δ	1.0
Type ATV	-				а, шт		-				_	_		
Note		ь•		3021		-		pint Burrer						-
Depth Sample (Fe) No. From To Rec. (an) Per to linches (Fe) No. From To Rec. (an) Per to linches (Fe) No. To No. Roy Per to linches (Fe)		e:												
Depth Sample Sample Perth Type Sample Perth Sample Perth Type Sample Perth Type Sample Perth Perth Type Sample Perth Perth Type Perth Type Perth Type Perth Type Perth Type Perth Type Perth Perth Type Perth				BORI	ING SA			VIS				Û		
Scale (Post) No. From To Service (Per 6) Indees (Post)	ъ .		ı											GDT ID III
Feet No. From To Rea (in) Per 6 Inches (in) From To Rea (in) Per 6 Inches (in) To Rea (in) Per 6 Inches (in) To To To To To To To T	_	Sample									and 25 to 50	% / same 20 to 359	0/4	
1		-			-		_							
Brown SILT, trace fine SAND (moist, medium stiff)										Matt				
2 2 2.0 4.0 SS/14 5-3-3-4 Brown SILT, some cmf SAND, little fine GRAVEL (moist, medium stiff) 12								-						
Stiff) Similar as above (wet, stiff) 12	1	1B	1.0	2.0				Brown SIL	T, trace fi	ne Sa	AND (moist, media	ım stiff)		
3	2	2	2.0	4.0	SS/14	5-3-3-4			T, some c	mf S.	AND, little fine GI	RAVEL (moist,	medium	6
Dark Grey cmf SAND and cmf GRAVEL, trace SILT, some ROCK fragments (wet, very compact) Auger refusal @ 7.0'	3							Still)						
Dark Grey cmf SAND and cmf GRAVEL, trace SILT, some ROCK fragments (wet, very compact) Auger refusal @ 7.0′	4	3	4.0	6.0	SS/13	3-5-7-10		Similar as a	above (we	t, stif	ff)			12
The state of the	5													
7	6	4	6.0	6.9	SS/11	34-100@5"							ROCK	100+
medium soft to medium hard. Weathered and broken zones throughout core run. Recovery: 60"/60" = 100% RQD = 12"/60" = 20% 21 pieces, 7 " Chips and fragments 1:45 min/fi, no water loss Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure.	7	R1	7.0	12.0	C/60	NQ-Core		Dark Grey/	Black SH	ALE	with interbedded I	DOLOSTONE (20%
Recovery: 60"/60" = 100% RQD = 12"/60" = 20% 21 pieces, 7 " Chips and fragments 1:45 min/ft, no water loss Coring conducted in 5th gear, 2000 rpm, 500 psi down pressure.	8							medium so	ft to medi	um h	ard.	•	l,	
11	9							Recovery:	60"/60" =	100%	% RQD = 12"/60'			
11	10							1:45 min/ft	, no water	·loss				
13 14 15 16 17 18	11							Coring con	iducted in	5th g	gear, 2000 rpm, 50	0 psi down press	sure.	
14 15 16 17 18	12							Bottom of	Boring @	12.0'	1			
15 16 17 18	13													
16 17 18	14													
17 18	15													
	16													
	17													
19	18													
	19													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks: * Water added for coring.

				6025 C	orporate Drive						Boring No.	R	-31
	- 0-	IV	Œ		racuse, NY 13057	St				ORATION	Page No.		of 1
	Ass	ciate	s, Inc.		315-701-0522		TEST	BORI	NG I	LOG	Report No.		3-03-1223
Project			2000	i mone.	New York	<u> </u>					Date Started		08/23
Client:	- tunic.	Rambo		us, ciuj,	100 Tolk						Date Finished		08/23
Locatio	n:			on Locati	on Plan						Surface Elev.		94.8'
					INVESTIGATIO	N			GR	ROUNDWATER			
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	Data		Time	Donth (Et.)	Cosina	. A 4 (E4.)
Driller:		Chris (Casing Hammer:			Date			Depth (Ft.)	Casing	At (Ft.)
Inspecto			Sharm	a, EIT	Other:			09/08/23		While Drilling	None Noted		1.0
Drill Ri	g:	CME 5	550X		Soil Sampler:		Split Barrel	09/08/23		ore Casing Removed	None Noted		5.8
Type:		ATV			Hammer Wt:	140 lbs.		09/08/23		er Casing Removed	None Noted		out
Rod Siz		AWJ	DOD	INC C	Hammer Fall:	30 in.	1/1	09/08/23		er Casing Removed	caved @ 2.5		out
	LU			ING SA	AMPLES		V 13	SUAL C	LAS	SSIFICATION C	JF MIATERIA	L	1
Depth			e Depth et.)	Type /	Blows on	Depth of		coarse		1 25 . 50	0// 20 . 25	0.7	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35 0% / trace - 0 to 109		or RQD %
0	1	0.0	2.0	SS/14	1-1-3-4	(111.)			mf S	AND, trace mf GR.			4
	1	0.0		22,1.	110.		(moist, me			. I. (2), III			
1									,				
2	2	2.0	4.0	SS/20	4-3-3-4				, littl	e cmf SAND, trace	e fine GRAVEL	(wet,	6
_							medium sti	iff)					
3													
4	_	4.0	- 0	00/16	2 2 2 100 (24)		D CII	T	CC	AND COL	AATEL D	OCK	
4	3	4.0	5.8	SS/16	3-3-3-100@4"		fragments			AND, some mf GR	KAVEL, some R	OCK	6
5	ł						Auger refu	•		suii)			
							Bottom of						
6							Bottom or	Boning (6)					
7													
8													
9													
10	ł												
10													
11													
12													
13													
1,													
14													
15	ļ												
13													
16													
17													
18													
10													
19													
20													

6035 Corporate Drive						SI	JBSURFA	ACE EX	Boring No. B		-32		
East Syracuse, NY 13057 Associates, Inc. Phone: 315-701-0522								BORI		Page No. 1		of 1	
	Ass			i mone.	315-701-0522		11231	DOM	110	LOG	Report No.	28062B	3-03-1223
Project	Name:			us, Clay,	New York				Date Started		07/23		
Client:		Rambo									Date Finished		07/23
Location: See Exploration Location Plan											Surface Elev.		2.3'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	TONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		Chris (- EIT	Casing Hammer:								
Inspecto Drill Ri		CME 5	Sharm	a, E11	Other: Soil Sampler:	2" OD S	<u> </u>			While Drilling ore Casing Removed	3.6		5.7
Type:	g.	ATV)JUA		Hammer Wt:	140 lbs.	-	09/07/23		er Casing Removed	4.2		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		09/07/23		er Casing Removed	caved @ 4.3		out
1104 512			BOR	ING SA	AMPLES		VI			SIFICATION C			
			e Depth								T IVIII EIKI		ap# #2##
Depth Scale	Sample		t.)	Type /	Blows on Sampler	Depth of		coarse medium		and 35 to 50	% / some - 20 to 35	0/2	SPT "N" or
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/14	1-2-3-3				`, trac	e cmf SAND, trace			5
							ROOTS (n	noist, med	lium s	stiff)			
1													
2	2	2.0	4.0	SS/13	1-4-7-7		Grey/Brow	n SILT a	nd cm	nf SAND, little cm	f GRAVEL (we	t, stiff)	11
3													
4	2	4.0	5.6	SS/11	17 21 10 100@1"		Doult Curr	DOCK &		ento tuono CIIT tuo	as amf CAND (t)	31
4	3	4.0	5.6	55/11	17-21-10-100@1"		Dark Grey	ROCK II	agme	ents, trace SILT, tra	ice ciii sand (weij	31
5	1						Auger refu	sal @ 5 7	,				
							Bottom of						
6								80					
7													
8													
9													
9													
10	i												
11													
12													
1.2													
13													
14													
14													
15	1												
16													
17													
10													
18													
19													
20	1		Ī	l		1	I						

	C	V	E		orporate Drive racuse, NY 13057	SU				LORATION	Boring No. Page No.		-33 of 1	
	Asso	ciates	, Inc.		315-701-0522		TEST BORING LOG Report No. 2806							
Project	Name:	Micror	Campi		New York						Date Started		08/23	
Client:		Rambo		, ,							Date Finished		08/23	
Location: See Exploration Location Plan							Surface Elev.							
					INVESTIGATIO	N			G	ROUNDWATER	OBSERVAT	IONS		
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	D-4-		T:	D 41- (E4.)	C	- A4 (E4.)	
Driller:		Chris (Casing Hammer:			Date		Time	Depth (Ft.)	Casing	g At (Ft.)	
Inspecto			Sharm	a, EIT	Other:			09/08/23		While Drilling	None Noted		1.0	
Drill Ri	g:	CME 5	550X		Soil Sampler:		Split Barrel	09/08/23		fore Casing Removed	11.0	1	1.8	
Type:		ATV			Hammer Wt:	140 lbs.		09/08/23		fter Casing Removed	7		out	
Rod Siz		AWJ	DOD	ING C	Hammer Fall:	30 in.	X 71			fter Casing Removed	caved @ 8.0		out	
	LO	T		ING SA	AMPLES		VI	SUAL C	LA	SSIFICATION (JF MATERIA	L		
Depth		_	Depth	Type /	Blows on	Depth of		coarse					SPT "N"	
Scale	Sample	(F		Sample	Sampler	Change		medium			0% / some - 20 to 35°		or DOD 0/	
(Feet)	No.	From 0.0	To 2.0	Rec. (in.) SS/20	Per 6 Inches 1-1-1-2	(Ft.)		- fine	mf	SAND, trace ROOT	20% / trace - 0 to 109 S. (moist_soft)	⁄o	RQD %	
U	1	0.0	2.0	33/20	1-1-1-2		DIOWII SIL	i, mue c	IIII	SAND, Have ROOT	3 (IIIOISI, SOII)		2	
1														
1														
2	2	2.0	4.0	SS/18	2-4-5-7		Brown SIL	T, trace f	ine	SAND, trace CLAY	(wet, stiff)		9	
								Í		,				
3														
4	3	4.0	6.0	SS/13	5-6-5-4		Similar as	above (we	et, si	tiff)			11	
5														
			0.0	00/10	2242		C /D	CH T		C CAND	CODANEL			
6	4	6.0	8.0	SS/12	2-3-4-3		medium sti		race	e fine SAND, trace r	nf GRAVEL (we	et,	7	
7							medium su	.11)						
,														
8	5	8.0	10.0	SS/10	2-2-1-2		Grev/Brow	n SILT. s	ome	e cmf SAND, some	fine GRAVEL. t	race	3	
							CLAY (we				, -			
9								, ,						
10														
11		11.0	11.0	GG /0	100 0 0 11		Auger refu			•			100	
12	6	11.8	11.8	SS/0	100@0"		Grey ROC Bottom of						100+	
12							DOLIOIII OI	Boring ω	11.	.0				
13														
14														
15														
16														
17														
1 /														
18														
19														

	C	V	E		orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		-34 of 1
	Asso	ciate	s, Inc.		315-701-0522		TEST	BORI	LOG	Report No.		3-03-1223	
Project	Name:	Micror	n Camp		New York						Date Started		07/23
Client:		Rambo									Date Finished		07/23
Location: See Exploration Location Plan											Surface Elev.	39	4.2'
		ME	ТНО	DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casina	At (Ft.)
Driller:		Chris (Casing Hammer:					-			
Inspecto		Asitwa Sharma, EIT		ıa, EIT	Other:	2 11 0 D 0		09/07/23		While Drilling	None Noted		1.0
Drill Ri	g:	CME 5	50X		Soil Sampler: Hammer Wt:	2" OD S	Split Barrel	09/07/23		ore Casing Removed	6.5 6.7		0.3
Type: Rod Siz	۵•	AWJ			Hammer Wt:	30 in.				er Casing Removed er Casing Removed	caved @ 9.0		out
Kou Siz			ROR	ING S	AMPLES	30 m.	VI			SSIFICATION C			741
	LO	T	e Depth						LAN		T WIATERIA		l
Depth Scale	Sample	Sample (F	_	Type /	Blows on Sampler	Depth of		coarse medium		and - 35 to 50	% / some - 20 to 35	SPT "N" or	
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/18	1-2-2-3		Brown SIL	T, trace f	ine S	AND, trace ROOT	S (moist, mediu	m stiff)	4
1													
2	2	2.0	4.0	SS/19	3-2-2-2		Dark Grey, medium sti		ILT, I	little cmf SAND, tr	race CLAY (moi	ist,	4
3	3	4.0	6.0	SS/13	3-2-2-2		Dark Grey	/Brown S	ILT, I	little cmf SAND, tr	ace CLAY, trac	e fine	4
5							GRAVEL	(wet, med	lium	stiff)			
6 7	4	6.0	8.0	SS/9	3-2-1-1		Dark Grey (wet, soft)	SILT, soi	ne cr	mf SAND, little mf	GRAVEL, trace	e CLAY	3
8	5	8.0	8.8	SS/8	5-100@3"		Dark Grey cmf SAND Auger refu	(wet, ha	rd)	CK fragments, trace	e mf GRAVEL,	trace	100+
10							Bottom of						
11													
12													
13													
14													
15													
16													
17													
18													
19													

					orporate Drive	SI	J BSURF	ACE EX	0		-35		
		IV	Ę		racuse, NY 13057			BORI	Page No.		of 1		
		ociates	S. Linkson	i none.	315-701-0522		1201	DOM	. 10 1	200	Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		07/23
Client: Ramboll											Date Finished		07/23
Location	n:			on Locati		™ T			CD	OUNDWATED	Surface Elev.		7.4'
Driller:		B. Flet		DS OF	INVESTIGATIO	3 ¼" ID	II C A		GK	OUNDWATER	OBSERVAI	IONS	
Driller:		Chris C			Casing: Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	Asitwa		a. EIT	Other:	NQ-Cor	e	09/07/23		While Drilling	None Noted	4	.0
Drill Ri		CME 5		, 211	Soil Sampler:	2" OD Split Barrel		09/07/23		re Casing Removed	2.4 *	.0	
Type:		ATV			Hammer Wt:	140 lbs.	•	09/07/23		er Casing Removed	2.8 *	O	ut
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		09/07/23	Afte	er Casing Removed	caved @ 4.0	O	ut
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 359	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/6	1-3-3-9					AND, trace fine Gl	RAVEL, trace R	OOTS.	6
							(moist, med	dium stiff)				
1													
2	2	2.0	3.7	SS/13	6-5-12-100@2"		Brown mot	tled SILT	' little	e cmf GRAVEL, li	ttle ROCK fragi	ments	17
_	_		01,	22,12	0 0 12 100@2		trace cmf S				uie ite eiz itugi	,	- 7
3									,	,			
							Auger refu	sal @ 4.0	<i>,</i>				
4	R1	4.0	9.0	C60	NQ-Core					with interbedded		1 1/4"),	65%
								-		um bedded, mediui			
5									and S	ILT layers @ 4.4' t	to 4.5', 5.1' to 5.2	2', 6.8' to	
							6.9' and 8.1		1000	/ I DOD 2011/501	. (50/		
6										% RQD = 39"/50"	' = 65%		
7							17 pieces, : 1:05 min/ft			agments			
,										gear, 2200 rpm, 60	0 nsi down press	sure	
8							0011118			,e, 2200 . p, 00	o por do m. p. ess		
9													
							Bottom of	Boring @	9.0'				
10													
11													
11													
12													
12													
13													
14													
15													
16													
10													
17													
18													
19													
20													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks: *Water added for coring.

					orporate Drive	SI	J BSURF	ACE EX	(PL	ORATION	Boring No.		-36	
	East Syracuse, NY 13057 Associates, Inc. Phone: 315-701-0522									Page No.	1	of 1		
	10.00		12 DVC-12	i none.	315-701-0522		TEST BORING LOG Report No. 280							
Project	Name:			us, Clay,	New York						Date Started		08/23	
Client:		Rambo					Date Finished 09							
Locatio	n:			on Locati		. .			<u> </u>		Surface Elev.		4.7'	
D				DS OF	INVESTIGATIO		TI C A		GR	ROUNDWATER	OBSERVAT	TONS		
Driller: Driller:		B. Flet Chris (Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)	
Inspect) Hara 1 Sharm	a FIT	Other:			09/08/23		While Drilling	None Noted		2.0	
Drill Ri		CME 5		iu, Lii	Soil Sampler:	2" OD S	Split Barrel	09/08/23		ore Casing Removed	None Noted		1.2	
Type:	8.	ATV			Hammer Wt:	140 lbs.	-	09/08/23		er Casing Removed	None Noted		out	
Rod Siz	e:	AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @ 3.8	(out	
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	F MATERIA	L		
Depth		Sample	e Depth	T. /	Blows on	D 4 6	c.	- coarse					SPT "N"	
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or	
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %	
0	1	0.0	2.0	SS/12	1-1-2-3				emf S	AND, trace fine G	RAVEL, trace F	ROOTS	3	
							(moist, sof	t)						
1														
2	2A	2.0	3.7	SS/12	4-4-4-100@5"		Grey/Broy	n mottled	ר זוט ו	Γ, some cmf SAND	some mf GR A	VEL	8	
	2A	2.0	3.7	55/12	4-4-4-100@3		(moist, stif		I DIL	i, some emi sarve	, some im Gra	VLL	0	
3							(1110151, 5111	1)						
	2B	3.7	3.9				Grey ROC	K chips a	nd fra	agments (moist)				
4	3	4.0	4.2	SS/0	100@2"		No Recove						100+	
							Bottom of							
5														
6														
7														
,														
8														
9														
10														
1.1														
11														
12														
13														
14														
15	-													
13														
16														
17														
18														
19														
20	I		ĺ	I	I		1							

	C	M	E		orporate Drive	SU	JBSURFA	ACE EX	PL	ORATION	Boring No. Page No.		-37
	Asso	ciates	. Inc.		racuse, NY 13057 315-701-0522		TEST	BORI	NG]	LOG			-03-1223
Project			S DAY	i none.	New York	<u> </u>					Report No. Date Started		07/23
Client:	Name.	Rambo		us, Ciay,	New Tolk						Date Started Date Finished		07/23
Location	n:			on Locati	on Plan						Surface Elev.		4.3'
					INVESTIGATIO	N			GR	OUNDWATER			
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	D 4					A ((T()
Driller:		Chris (Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto			Sharm	a, EIT	Other:			09/07/23		While Drilling	None Noted		0.0
Drill Ri	g:	CME 5	550X		Soil Sampler:		plit Barrel	09/07/23		ore Casing Removed	None Noted		3.0
Type:		ATV			Hammer Wt:	140 lbs.		09/07/23		er Casing Removed	7.4		out
Rod Siz		AWJ	DΩDI	INC S	Hammer Fall: MPLES	30 in.	3/10			er Casing Removed SIFICATION C	caved @ 7.5		out
	LO			ING SE			V 15	SUAL C	LAS	SIFICATION C	F MAIEKIA	.L	
Depth	C 1 -	Sample (F		Type /	Blows on	Depth of		coarse		1 25 + 50	0/ / 20 +- 250	1/	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35% 0% / trace - 0 to 10%		or RQD %
0	1	0.0	2.0	SS/14	1-2-2-3				ine S	AND, trace ROOT			4
1													
		2.0	4.0	GG /10	4 5 5 5		D	1 1017		C CLID (:			
2	2	2.0	4.0	SS/18	4-7-7-7		Brown mot	tled SILT	e fine SAND (mois	st, stiff)		14	
3													
3													
4	3	4.0	6.0	SS/20	4-5-2-2	Brown SILT, trace fine SAND (wet, medi					n stiff)		7
						Brown SILT, trace fine SAND (wet, med					,		
5	1												
6	4	6.0	8.0	SS/5	4-WH-WH-2		Brown SIL	T, little m	of SA	ND, little CLAY (v	wet, very soft)		0
7													
,													
8	5	8.0	8.8	SS/7	3-100@4"		Grev/Brow	n SILT, li	ittle C	CLAY, little ROCK	fragments, trac	e mf	100+
							SAND (we			,	8 ,		
9							Auger refu		,				
							Bottom of	Boring @	9.1'				
10													
11													
11													
12													
13													
14													
1.5													
15													
16													
17													
18													
19													
19													
<u> </u>	ł	I											

				6035 C	orporate Drive	SI	[JBSURF	ACE EX	KPLORATION	Boring No.	В	-38
		IV	Ę		racuse, NY 13057				NG LOG	Page No.	1	of 1
	Ass	ociates	s, Inc.	Phone:	315-701-0522		1 E S I	DOKI	NG LOG	Report No.	28062E	3-03-1223
Project 1	Name:	Micror	n Campi	us, Clay,	New York	-				Date Started	09/	08/23
Client:		Rambo	oll							Date Finished	09/	08/23
Location	n:	See Ex	ploratio	n Locati	on Plan					Surface Elev.	39	7.2'
					INVESTIGATIO	N			GROUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	_				
Driller:		Chris (O'Hara		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:		Sharm	a. EIT	Other:			09/08/23	While Drilling	None Noted		1.0
Drill Rig		CME 5		,	Soil Sampler:	2" OD S	Split Barrel	09/08/23	Before Casing Removed	None Noted		7.4
Type:	5.	ATV			Hammer Wt:	140 lbs.	-	09/08/23	After Casing Removed	None Noted		out
Rod Size	۵۰	AWJ			Hammer Fall:	30 in.		09/08/23		caved @ 12.8		out
Kou Sizi			D∩Di	INC S	AMPLES	30 III.	VI		LASSIFICATION C			out
	LU			ING SE	AMII LES		V 1)	SUAL C	LASSIFICATION	JI MATEKIA	L	
Depth			e Depth	Type /	Blows on	Depth of		coarse				SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium		% / some - 20 to 35°		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 109	<u>%</u>	RQD %
0	1	0.0	2.0	SS/20	1-1-1-2		FILL; Brov	vn silt, fir	ne sand, roots (moist)			2
1												
2	2	2.0	4.0	SS/21	5-5-5-5		FILL; Brov	vn silt, fir	ne sand (moist)			10
3												
4	3	4.0	5.2	SS/14	4-5-100@2"		Miscellane	ous FILL	; Brown mottled silt, fin	e sand, rock frag	gments,	100+
							roots, meta		,	,	,	
5							,	()				
							 					1
6	4	6.0	8.0	SS/10	6-8-11-12		Brown SII	T and cm	f SAND, some cmf GR.	AVEL (wet, ver	v stiff)	19
	-										,,	
7												
,												
8	5	8.0	10.0	SS/15	10-10-11-13		Drown CII	T and DC	OCK fragments, some cn	of SAND little	mf	21
0	3	8.0	10.0	33/13	10-10-11-13		GRAVEL		_	iii sand, iittie i	1111	21
0							GKAVEL	(wet, ver	y sum)			
9												
1.0												
10												
11												
12												
13												
	6	13.5	15.0	SS/13	38-37-100				K fragments, some cmf	SAND, little m	f	137
14							GRAVEL	(wet, hard	l)			
15												
16												
17							Augered hard @ 17.2'. Auger refusal @ 17.4'.					
	7	17.4	17.4	SS/0	100@0"		No Recovery.					100+
18	,	- /				Bottom of Boring @ 17.4'						
						Bottom of Boring @ 17.4'						
19												
1)												
				I	ĺ	Ī						1

	C	M	F		orporate Drive	SU	J BSURF A	ACE EX	PL	ORATION	Boring No.		-39
	Assi	ciates	. Inc.		racuse, NY 13057		TEST	BORI	NG]	LOG	Page No.		of 2
Project			20 may	I none.	315-701-0522 New York	<u> </u>					Report No. Date Started		07/23
Client:	Name.	Rambo		us, Ciay,	New Tolk						Date Started Date Finished		07/23
Location	n:			n Locati	on Plan						Surface Elev.		7.0'
					INVESTIGATIO	N			GR	ROUNDWATER			,
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	ъ.					A ((TE()
Driller:		Chris C)'Hara		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto			Sharm	a, EIT	Other:	NQ-Cor		09/07/23		While Drilling	16.1		9.0
Drill Ri	g:	CME 5	50X		Soil Sampler:		plit Barrel	09/07/23		ore Casing Removed	2.9 *		19
Type:		ATV			Hammer Wt:	140 lbs.		09/07/23		er Casing Removed	4.5 *		out
Rod Siz		AWJ	D∩DI	INC S	Hammer Fall: AMPLES	30 in.	3/10			er Casing Removed SIFICATION (caved @ 14.7		out
	LO	1		ING SE			V 15	SUAL C	LAS	SIFICATION (JF WIATEKIA	L	1
Depth	G 1 .	Sample (F		Type /	Blows on Sampler	Depth of		coarse		1 25 + 50	0% / some - 20 to 359	1/	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		medium - fine			20% / trace - 0 to 10%		or RQD %
0	1	0.0	2.0	SS/24	1-1-4-6				f SA	ND, trace ROOTS			5
							medium sti	iff)			·		
1													
_	2	2.0	4.0	00/16	4.5.2.2	Brown mottled SILT, little cmf SAND, trace fine GRAVE stiff)							0
2	2	2.0	4.0	SS/16	4-5-3-2	Brown mottled SILT, little cmf SAND, trace fine GRAVEL (v stiff)						(wet,	8
3						Stiff)							
3						2 Brown cmf SAND and SILT, trace fine GRAVEL (wet, stiff)							
4	3	4.0	6.0	SS/14	2-4-7-12	Brown cmf SAND and SILT, trace fine GRAVEL (wet, stiff))	11
			0.0		,	Brown cmf SAND and SILT, trace fine GRAVEL (wet, stiff)						,	
5						Blown chil SAND and SIL1, trace line GRAVEL (wet, suil)							
6	4	6.0	8.0	SS/15	10-8-10-12			f SAND, s	ome	SILT, trace fine G	RAVEL (wet, m	edium	18
7							compact)						
,													
8	5	8.0	10.0	SS/12	13-12-13-8		Brown/Gre	ev cmf SA	ND.	some SILT, trace f	ine GRAVEL (v	vet. verv	25
							stiff)	,	,		(.	, j	
9							ĺ						
10													
11													
11													
12													
13													
	6	13.5	15.0	SS/11	8-17-24			cmf SAN	D, tra	ace cmf GRAVEL	, trace SILT (we	t,	41
14							compact)						
15													
15													
16													
17							1. 10.15.51						
						Augered hard @ 17.5'							
18	_	10.5	10.7	00/2	100 - 2"	Dark Grey ROCK chips and fragments (wet) Auger refusal @ 19.0'					100:		
19	7 R1	18.5 19.0	18.7 24.0	SS/2 C/60	100@2" NQ-Core					and fragments (wet tly weathered, lam			100+ 83%
17	IX1	19.0	∠4.0	C/00	11Q-0016		medium ha		angili	iry weathered, falli	macca to tilling 0	cuucu,	03/0
—					ĺ								1

CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-39

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		TEST DOMING	LOG	Report No.	28062B-03-12
					AMPLES		VISUAL CLAS	SIFICATION (L
Depth Scale	Sample	Sample (F	e Depth	Type / Sample	Blows on Sampler	Depth of Change	c - coarse m - medium	and - 35 to 50	0% / some - 20 to 35%	SPT o
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f - fine Continued from Page 1	little - 10 to 2	20% / trace - 0 to 10%	6 RQI
21							Horizontal fractures with Recovery: 60"/60" = 100%	weathering at 20	3', 21.2' and 23.2	".
							RQD = 50''/60'' = 83%			
22							8 pieces, 2" Chips and frag			
							1:50 min/ft, no water loss			
23							Coring conducted in 5th g	gear, 2000 rpm, 50	00 psi down press	sure.
24							Bottom of Boring @ 24.0'			
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40	1									
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	ΙE	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		-40 of 1
	Ass	ociate	s, Inc.		315-701-0522		TEST	BORI	NG	LUG	Report No.		3-03-1223
Project	Name:	Micro	1 Camp		New York						Date Started		08/23
Client:	- 100	Rambo		,,							Date Finished		08/23
Locatio	n:			on Locati	on Plan						Surface Elev.		6.5'
Locatio			_		INVESTIGATIO	N			GI	ROUNDWATER			0.5
Driller:		B. Flet		D 5 O 1	Casing:	3 ¼" ID	HSA			TO CITE WITTE			
Driller:		Chris (Casing Hammer:	274 125	11.5.1.1.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto			Sharm	a. EIT	Other:			09/08/23		While Drilling	18.3	1	8.5
Drill Ri		CME :		,	Soil Sampler:	2" OD S	Split Barrel	09/08/23	Bef	ore Casing Removed	17.6		9.9
Type:	8.	ATV			Hammer Wt:	140 lbs.	-	09/08/23		ter Casing Removed	None Noted		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		09/08/23		ter Casing Removed	caved @ 8.0		out
			BOR	ING S	AMPLES	T	VI			SSIFICATION ()		
				1110 51		+			1111		or white Eith		l
Depth	G 1		e Depth (t.)	Type /	Blows on	Depth of		coarse		1 25 / 5/	20.4 25.4	0.7	SPT "N"
Scale (Feet)	Sample No.	From	То	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			0% / some - 20 to 35° 20% / trace - 0 to 10°		or RQD %
0	1	0.0	2.0	SS/15	1-2-3-7	(11.)			mf S	AND, trace fine Gl			5 S
U	1	0.0	2.0	55/15	1-2-3-7		(moist, me			interp, trace fine of	MIVEL, Hace K	.0015	
1							(moist, me	alulli Still	,				
1													
2	2	2.0	4.0	SS/19	5-4-4-4		Brown SII	T some (mf S	SAND trace mf GF	PAVEL (wet sti	ff)	8
		2.0	7.0	55/17	3-1-1-1	Brown SILT, some cmf SAND, trace mf GRAVEL (wet, stiff)							
3													
3													
4	3	4.0	6.0	SS/19	3-5-9-11	Brown mottled SILT, little cmf SAND, trace CLAY, trace fine							14
4	3	4.0	0.0	33/19	3-3-9-11	Brown mottled SILT, little cmf SAND, trace CLAY, trace fine GRAVEL (wet, stiff)							14
5	-												
3						GRAVEL (wet, stiff)							
6	4	6.0	8.0	SS/14	11-13-17-18		Similar as	obovo (m	at wa	arry atiff)			30
0	4	0.0	0.0	33/14	11-13-17-10		Sillillai as	above (we	i, ve	ary surry			30
7													
,													
8	5	8.0	10.0	SS/24	11-19-19-52		Gray/Dray	n CII T o	nd or	nf SAND, little fin	o CDAVEL (wot	t word	38
0	3	0.0	10.0	33/24	11-19-19-32		stiff)	'll SIL1 a	na Ci	in sand, iille iill	e GRAVEL (We	i, very	36
9							Sull)						
9													
10													
10													
11													
11													
12													
12													
13													
13	6	13.5	14.8	SS/16	30-71-100@4"		Gress CII T	come e-	of C A	AND, little mf GRA	VEL trace CLA	V (svot	100+
14	0	13.3	14.8	33/10	30-/1-100@4"		hard)	, some cn	п 5А	אווע, וווופ mi GKA	vel, trace CLA	ıı (wet,	100+
14							maru)						
1.5	1												
15													
16													
10													
17													
17													
10													
18	7	10 5	10.2	00/10	20 100@4"		Grev SILT and ROCK fragments, trace mf GRAVEL (wet, hard)					100+	
10	7	18.5	19.3	SS/10	30-100@4"	Grey SILT and ROCK fragments, trace mf GRAVEL (wet, hard) Auger refusal @ 19.9'						100+	
19)'			
20	4						Bottom of	Boring (a)	19.5) *			

			F		orporate Drive	SU	J BSURF	ACE EX	XPLORATION	Boring No.		-63
					racuse, NY 13057		TEST	RORI	NG LOG	Page No.		of 1
		ociates		1 mone.	315-701-0522		11201	DOM	nd Lod	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York	-				Date Started	10/2	23/23
Client:		Rambo	oll							Date Finished	10/2	23/23
Location	1:	See Ex	ploratio	on Locati	on Plan					Surface Elev.	40	0.5'
		ME	THO	DS OF	INVESTIGATION	ON			GROUNDWATE	R OBSERVAT	IONS	
Driller:		H. Lyo	n		Casing:	3 ¼" ID	H.S.A.	ъ.	TC*	D 41 (F(1)	α.	A ((T) ()
Driller:		K. Cra	ndall		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:	A. Sha	rma, EI	T	Other:			10/23/23	While Drilling	None Noted		-
Drill Ri		CME 4	15		Soil Sampler:	2" OD S	plit Barrel	10/23/23	Before Casing Removed	None Noted		-
Туре:	•	Track			Hammer Wt:	140 lbs.	1	10/23/23	After Casing Removed		(out
Rod Size	e:	AW			Hammer Fall:	30 in.		10/23/23			.	out
			BOR	ING S	AMPLES		VI		CLASSIFICATION	_		
	LO	ı		1110 52			V 1)	JUALC	LASSIFICATION	OF MATERIA	LL .	
Depth	Sample Depth Sample (Ft.) Sample Sample Sample Sampler Change							coarse				SPT "N"
Scale						_		medium		50% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	l and Organic Material	20% / trace - 0 to 10°	%	RQD %
0	1A	0.0	0.7	SS/12	1-2-5-7						7	
	1B	0.7	2.0				Brown cm	SAND, I	little SILT, little fine G	RAVEL (moist, l	loose)	
1												
2	2	2.0	4.0	SS/15	7-14-9-14		Brown SIL	T and cm	of SAND, little mf GRA	AVEL (wet, very	stiff)	23
3												
4	3	4.0	6.0	SS/22	7-8-9-7		Grey/Brow	n SILT a	nd cmf SAND, some m	of GRAVEL (wet	, very	17
							stiff)					
5												
6	4	6.0	8.0	SS/15	11-12-14-16		Similar as	above (me	oist, very stiff)			26
									, ,			
7												
,												
8	5	8.0	8.7	SS/8	9-50@2"		Dark Brow	n/Grev S	ILT and mf GRAVEL,	some cmf SANI) (moist	50+
0	3	0.0	0.7	55/6	7-30(6)2		hard)	II GICY 5.	ier and im Oldriel,	Some emi Stave	(IIIOISt,	301
9							naru)					
9												
10							Augan nafa	aal @ 10	61			
10	(10.6	10.6	00/0	5 0@0"		Auger refu		0			50.
1.1	6	10.6	10.6	SS/0	50@0"		No Recove					50+
11							See Remar		11.51			
10							Bottom of	Boring @	, 11.5			
12												
13												
14												
15												
16												
17												
18												
19												
20				I								1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks: 1. Boring was offset by 3.0' west of original location and augered. Auger started getting harder beginning @ 10.6' and refusal was achieved @ 11.5'.

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				RATION	Boring No. Page No.		- 65
	Ass	ociates	s, Inc.	Phone:	315-701-0522		IESI	BORI	NG L	OG .	Report No.	28062E	3-03-1223
Project	Name:	Micror	Camp		New York						Date Started		24/23
Client:		Rambo		-, -, -,							Date Finished		24/23
Location				on Locati	on Dlan						Surface Elev.		2.5'
Lucano			_		INVESTIGATIO	N			CDC	DUNDWATER			14.3
Driller:		H. Lyo		DS OF		3 ¼" ID	нсл		GRC	JUNDWAIEN	ODSERVAI	IONS	
		K. Cra			Casing:	3 % ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:				T	Casing Hammer:			10/24/22	77	11.1 D.11.	N. N. I		
Inspecto			rma, EI	T	Other:	2 11 0 D 0	11:5	10/24/23		hile Drilling	None Noted		-
Drill Ri	g:	CME 4	15		Soil Sampler:		Split Barrel	10/24/23		Casing Removed	None Noted		-
Type:		Track			Hammer Wt:	140 lbs.		10/24/23		Casing Removed	None Noted		out
Rod Siz		AW			Hammer Fall:	30 in.		10/24/23		Casing Removed	caved @ 4.3		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LASS	IFICATION C)F MATERIA	L	
Depth		Sample	e Depth	T. /	Blows on	D 4 6	c -	coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1A	0.0	0.4	SS/8	2-5-6-14		Dark Brow	n Topsoil	and O	rganic Material (11
-	1B	0.4	2.0	~						and cmf SAND,		st.	1
1		```	~				medium co		(, , , , , , , , , , , , , , , , ,	2121 (IIIO)	-7	
1							incurum co	прасту					
2	2	2.0	4.0	SS/9	3-2-2-5		Brown SII	T and cm	f S A NII	D, some mf GRA	VEL (moist me	dium	4
	2	2.0	7.0	33/7	3-2-2-3		stiff)	i and cin	II SAINI	D, some im GRA	VLL (IIIOISI, IIIC	diuiii	-
2							Suii)						
3													
	2	4.0		00/14	5 20 50 1 H		C /D1 1	CII T	1 66	LAND C	CDANEL (:	. 1 1	50.
4	3	4.0	5.1	SS/14	5-30-50@1"		Grey/Black	SILT an	d cmf S	SAND, some mf	GRAVEL (mois	t, hard)	50+
5							Auger refu						
							Bottom of	Boring @	5.0'				
6													
7													
8													
9													
10													
10													
11													
11													
12													
12													
12													
13													
1.4													
14													
15													
16													
17													
18													
19													
17													
20													

Remarks:

Boring B-65 was offset west from the originally staked location by about 7 feet.

						1								
					orporate Drive	SUBSURFACE EAT LONATION Page No. 1 of								
					racuse, NY 13057			BORI			Page No.		of 1	
			s, Inc.	i none.	315-701-0522		1201	DOM			Report No.		-03-1223	
Project	Name:			us, Clay,	New York						Date Started		24/23	
Client:		Rambo		<u> </u>	~-						Date Finished		24/23	
Locatio	n:			on Locati		NT.			CD	OHNDWATED	Surface Elev.		5.1'	
Driller:		H. Lyc		DS OF	INVESTIGATIO Casing:	3 ¼" ID	ПСЛ		Gr	ROUNDWATER	OBSERVAI	IUNS		
Driller:		K. Cra			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)	
Inspecto			rma, El	T	Other:			10/24/23		While Drilling	None Noted		_	
Drill Ri		CME 4			Soil Sampler:	2" OD S	Split Barrel	10/24/23		ore Casing Removed	None Noted		-	
Type:		Track			Hammer Wt:	140 lbs.	•	10/24/23		er Casing Removed	None Noted	(out	
Rod Siz		AW			Hammer Fall:	30 in.		10/24/23	Afte	er Casing Removed	caved @ 6.6	(out	
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	OF MATERIA	L		
Depth			e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"	
Scale	Sample		t.)	Sample	Sampler	Change m - medium and - 35 to 5					% / some - 20 to 35		or	
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.) f - fine little - 10 t Brown SILT, some cmf SAND, little mf C					20% / trace - 0 to 109		RQD %	
0	1	0.0	2.0	SS/9	1-1-3-4		(moist, sof		SAND, little mf GR	AVEL, trace RO	0018	4		
1							(IIIOISI, SOI	ι)						
1														
2	2	2.0	4.0	SS/16	5-7-9-12		Brown SIL	T and cm	f SA	ND, little mf GRA	VEL (moist, ver	y stiff)	16	
						Brown SILT and cmf SAND, little mf GRAVEL (moist, very stiff)								
3														
4	3	4.0	6.0	SS/19	5-3-3-9				, son	ne cmf SAND, som	e mf GRAVEL	(moist,	6	
							medium sti	iff)						
5														
6	4	6.0	7.7	SS/7	18-8-10-50@2"		Grev/Brow	n cmf GI	AVE	EL and mf SAND,	trace SILT (moi	et	18	
	_	0.0	/ . /	55//	10-0-10-30@2		medium co			EL and im Start,	irace SILT (mor	31,	10	
7							Auger refu		,					
							Bottom of	Boring @	7.9'					
8														
9														
10														
10														
11														
12														
13														
1 /														
14														
15	1													
16														
17														
4.5														
18														
19														
19														
20	ł						1						1 1	

				6035 C	orporate Drive	SI	JBSURF A	ACE EX	XPLORATION	Boring No.	В	-68
		IV	Ę		racuse, NY 13057				NG LOG	Page No.	1	of 1
	Asso	ciates	s, Inc.	Phone:	315-701-0522		1651	DUKI	NG LUG	Report No.	28062E	3-03-1223
Project 1	Name:	Micron	Campi	us, Clay,	New York	-				Date Started	10/2	20/23
Client:		Rambo	11							Date Finished	10/2	20/23
Location	1:	See Ex	ploratio	n Locati	on Plan					Surface Elev.	39	8.5'
					INVESTIGATIO	N			GROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo	n		Casing:	3 ¼" ID	H.S.A.	D-4-	T:	Donath (E4.)	C	A A (E4.)
Driller:		K. Cra	ndall		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:	A. Sha	rma, EI	T	Other:			10/20/23	While Drilling	None Noted		-
Drill Rig	g:	CME 4	15		Soil Sampler:	2" OD S	Split Barrel	10/20/23	Before Casing Removed	None Noted		-
Type:		Track			Hammer Wt:	140 lbs.		10/20/23	After Casing Removed	11.6	(out
Rod Size	e:	AW			Hammer Fall:	30 in.		10/20/23	After Casing Removed	caved @ 15.6	(out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFICATION ()F MATERIA	L	
Depth		Sample	Depth	T	Blows on	5 1 0	C -	coarse				SPT "N"
Scale	Sample	(F	_	Type / Sample	Sampler	Depth of Change		medium	and - 35 to 50	0% / some - 20 to 359	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		20% / trace - 0 to 10%		RQD %
0	1A	0.0	0.6	SS/13	1-2-3-4				nd Organic Matter (moi			5
	1B	0.6	2.0						, little fine SAND, trace	e mf GRAVEL (moist,	
1							medium sti	ff)				
2	2	2.0	2.9	SS/7	3-50@5"				SILT, some cmf SANE	(moist, hard)		50+
3							Possible O Augered gr		ginning @ 3.0'			
4	3	4.0	6.0	SS/13	21-6-5-6		Brown SIL	T, some c	emf SAND, trace mf GR	AVEL (wet, stif	ff)	11
5												
6	4	6.0	8.0	SS/17	7-9-7-7		Brown SIL	T and cm	f SAND, some mf GRA	VEL (wet, very	stiff)	16
7												
8	5	8.0	10.0	SS/17	4-9-14-16		Grey SILT	, some CI	AY, trace cmf SAND (moist, very stiff)	23
9												
10												
11												
12												
13	6	13.0	14.4	SS/12	34-35-50@5"		Dark Grey/ (moist, hard		LT, some cmf GRAVEI	, some cmf SAN	ND	50+
14							, ====	,				
15												
16												
17							Augered hard beginning @ 17.3'					
18	7	18.0	19.2	SS/7	24-44-50@2"		Dark Grey/Black highly weathered ROCK fragments, trace cmf SAND, trace mf GRAVEL (moist)					50+
19							Auger refu. Bottom of	sal @ 18.	8'			

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks:

1. Boring B-68 was offset southwest from the originally staked location by about 7 feet.

						1				7	1		
					orporate Drive	SI	JBSURFA	ACE EX	ŒL	ORATION	Boring No.		-81
					racuse, NY 13057			BORI			Page No.		of 2
		ociates	20 1165	I moner.	315-701-0522		TEST	DOM		LOG	Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		19/23
Client:		Rambo		<u> </u>	T)						Date Finished		19/23
Location	n:			on Locati		NT.			CI	OUNDWATED	Surface Elev.		4.4'
Driller:		H. Lyo		DS OF	INVESTIGATIO Casing:	3 ¼" ID	псл		Gr	ROUNDWATER	OBSERVAI	IONS	
Driller:		K. Cra			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:		rma, EI	Т	Other:			10/19/23		While Drilling	8.4	7	7.5
Drill Ri		CME 4			Soil Sampler:	2" OD S	Split Barrel	10/19/23	Befo	ore Casing Removed	None Noted		1.7
Type:		Track			Hammer Wt:	140 lbs.	-	10/19/23		er Casing Removed	19.6	(out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/19/23	Aft	er Casing Removed	caved @ 20.7	C	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	F MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35°	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.7	SS/13	1-1-4-7					erial (moist)	<u></u>		5
1	1B	0.7	2.0			Brown SILT, trace fine SAND, trace CLAY (moist, medium stiff)							
1													
2	2	2.0	4.0	SS/16	4-6-6-7		Brown cm	f SAND a	nd Sl	ILT_little mf GRA	VEL (moist_med	lium	12
_	_	2.0	1.0	55,10	1007	Brown cmf SAND and SILT, little mf GRAVEL (moist, medium compact)							12
3						Augered gravelly beginning @ 4.0'							
						Augered gravelly beginning @ 4.0'							
4	3	4.0	6.0	SS/5	20-10-15-9	Grey/Brown mf GRAVEL, little SILT, trace fine SAND (moist,							25
5													
_													
6	4	6.0	8.0	SS/8	4-4-7-9					ne CLAY, little cm	f SAND, trace n	nf	11
7							GRAVEL	(wet, stiff)				
7													
8	5	8.0	10.0	SS/20	3-6-8-10		Grev/Brow	m SILT at	nd en	nf SAND, some mf	GRAVEL trace	e CLAY	14
		0.0	10.0	55/20	3 0 0 10		(wet, stiff)		ia cii	in 57 ii vD, some iii	GIGIT V ELE, true	CEITT	1.
9							PP=2.75, 2						
							ĺ	,					
10	1												
11													
10													
12													
13	6	13.0	15.0	SS/12	6-12-12-18		Grev CLA	V and SII	т Б	ttle cmf SAND (we	t very stiff)		24
13		15.0	15.0	00/12	0-12-12-10		PP=1, 1.5,		, 1, 11	inc ciii sand (we	i, very suiri		27
14							1, 1, 2,	1.20					
-													
15													
16							Averaged by a distribution of 16.00						
							Augered hard beginning @ 16.8'						
17													
10	7	10.0	10.4	00/17	21 40 50 (25"	Grey SILT and cmf SAND, some fine GRAVEL, little CLAY (wet,					V (1	50.	
18	7	18.0	19.4	SS/16	21-40-50@5"	Grey SILT and cmf SAND, some fine GRAVEL, little CLAY (wet, hard)					50+		
19							nara)						
17													
20	1						Continued	on Page	,				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP - Pocket Penetrometer Results in tsf

Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-81** 2 of 2 Page No. **Report No.** 28062B-03-1223

					315-701-0522		TEST DOMING I		Report No.	28062B-03-1223
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLASS	SIFICATION (OF MATERIA	L
Depth Scale (Feet)	Sample No.		Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	
20	140.	Tiom	10	Rec. (III.)	Tel 6 liches	(11.)	Continued from Page 1	ntile - 10 to 2	20707 trace - 0 to 107	0 KQD 70
21										
22	8	21.7	21.7	SS/0	50@0"		Auger refusal @ 21.7' No Recovery. See Remark	1		50+
23							Bottom of Boring @ 21.7'			
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35	1									
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

1. Grey ROCK chips and fragments on spoon top Remarks:

				6035 Co	orporate Drive	SI	IBSURFA	CE EX	PLO	ORATION	Boring No.	B	-83
		IV	Ę		racuse, NY 13057			BORI			Page No.	1 (of 1
		ciates	S DAY	i none.	315-701-0522		11231	DOM	10.	LOG	Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		24/23
Client:		Rambo									Date Finished		24/23
Location	n:			n Locati	on Plan INVESTIGATIO	NT .			CD	OUNDWATER	Surface Elev.		4.8'
Driller:		H. Lyo		DS OF	Casing:	3 ¼" ID	HSA		GN	OUNDWATER	ODSERVAI	IONS	
Driller:		K. Crai			Casing Hammer:	3 74 ID	11.5.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	A. Sha		T	Other:			10/24/23		While Drilling	None Noted		-
Drill Ri	g:	CME 4	15		Soil Sampler:	2" OD S	plit Barrel	10/24/23	Befo	re Casing Removed	None Noted		-
Type:		Track			Hammer Wt:	140 lbs.		10/24/23		er Casing Removed	None Noted	C	out
Rod Siz		AW			Hammer Fall:	30 in.		10/24/23		er Casing Removed	caved @ 8.5		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth			Depth	Type /	Blows on	change							SPT "N"
Scale	Sample	(F		Sample	Sampler	(Ft.) f - fine little - 10 t					% / some - 20 to 359		or DOD 0/
(Feet)	No.	From 0.0	To 2.0	Rec. (in.) SS/17	Per 6 Inches 1-1-3-3	Brown SILT, little cmf SAND, trace fine (trace ROOTS (moist, medium stiff)					0% / trace - 0 to 10%		RQD %
	1	0.0	2.0	55/1/	1-1-3-3				·	CA VEL, Hace C	LAI,	_	
1								10 (111010)	, 11100				
2	2	2.0	4.0	SS/14	3-3-4-3				e cmf SAND, trace	mf GRAVEL, t	trace	7	
							CLAY (we						
3													
4	2	4.0	(0	00/12	2 (10 0		D	41 - 1 CH T			4	1.0	
4	3	4.0	6.0	SS/13	3-6-10-8			tied SIL I	cmi Sand, some o	emi GRAVEL (wet,	16	
5						Brown mottled SILT and cmf SAND, sor very stiff)							
6	4	6.0	8.0	SS/17	7-9-16-24		Brown SIL	T, some c	mf S	AND, some mf GR	AVEL (wet, ver	ry stiff)	25
7													
	_	0.0	100	GG/10	10 00 04 00		D 011		COL	NATION 12:1	3.1.1.D. (1	10	4.6
8	5	8.0	10.0	SS/12	12-22-24-33		Brown SIL	T, some r	nt GF	RAVEL, little cmf S	SAND (wet, har	d)	46
9													
9													
10													
							Augered ho	ırder begi	nning	g @ 10.8'. Auger r	refusal @ 11.3'.		
11	6	11.3	11.3	SS/0	50@0"		No Recover						50+
							Bottom of l	Boring @	11.3	1			
12													
13													
13													
14													
15													
16													
17													
1 /													
18													
19													
20													

				6035 Co	orporate Drive	CI	IDCLIDE	A CIE EX	zni 4	OD ATLON	Boring No.	В	-85
		IV			racuse, NY 13057	St				ORATION	Page No.		of 1
	Asso	ociate	s, Inc.		315-701-0522		TEST	BORI	NG.	LOG	Report No.	28062E	3-03-1223
Project	Name:	Micror	n Camp	us, Clay,	New York						Date Started	10/2	24/23
Client:		Rambo	oll								Date Finished	10/2	24/23
Locatio	n:			on Locati							Surface Elev.		14.7'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra		T	Casing Hammer:								
Inspecto Drill Ri		A. Sha	rma, EI	Ι	Other: Soil Sampler:	2" OD 6	Split Barrel	10/24/23		While Drilling	None Noted None Noted		-
Type:	g.	Track	+3		Hammer Wt:	140 lbs.	-	10/24/23		ore Casing Removed er Casing Removed	None Noted		- out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/24/23		er Casing Removed	caved @ 6.5		out
			BOR	ING S	AMPLES	1	VI			SSIFICATION C			
Donath			e Depth			1							CDT "NI"
Depth Scale	Sample		t.)	Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and - 35 to 50	% / some - 20 to 35	%	SPT "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1A	0.0	0.5	SS/20	1-1-2-3	<u> </u>				erial (moist)			3
	1B	0.5	2.0				Brown SIL	T, little c	mf S	AND, trace mf GR	AVEL (moist, se	oft)	
1													
2	2	2.0	4.0	SS/14	2-4-5-5		Drown CII	T little e	mf S	AND, trace mf GR	AVEL (moist st	iff)	9
2		2.0	4.0	33/14	2-4-3-3		DIOWII SIL	1, Huie C	IIII 37	AND, have illi GR	A VEL (IIIOISI, SI	1111)	9
3													
4	3	4.0	6.0	SS/18	4-4-10-14		Light Brow	n mottled	SIL	T, some mf GRAV	EL, trace cmf S	AND	14
							(moist, stif						
5]												
			l				Augered gr						
6	4	6.0	7.4	SS/12	12-20-50@5"		Brown SIL	T and cm	f GR	AVEL, little cmf S	AND (wet, hard	i)	50+
7							Auger refu	sal @ 7.4	,				
,							Bottom of						
8									,				
9													
10													
11													
11													
12													
13													
14													
1.5													
15													
16													
10													
17													
18													
19													
20													

				6035 Co	orporate Drive	SI	JBSURFA	ACE EX	PL	ORATION	Boring No.	B	-87
		IV	Ę		racuse, NY 13057			BORI			Page No.	1 (of 1
	Asso	ciates	S DAY	i none.	315-701-0522		11231	DOM	101	LOG	Report No.	28062B	-03-1223
Project	Name:			us, Clay,	New York						Date Started		24/23
Client:		Rambo									Date Finished		24/23
Location	n:			n Locati		NT .			CD	OUNDWATED	Surface Elev.		3.8'
Driller:		H. Lyo		DS OF	INVESTIGATIO	3 ¼" ID	ПСУ		GR	ROUNDWATER	OBSERVAI	IONS	
Driller:		K. Cra			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	A. Sha		Т	Other:			10/24/23		While Drilling	None Noted		_
Drill Ri		CME 4			Soil Sampler:	2" OD S	plit Barrel	10/24/23		ore Casing Removed	None Noted		-
Type:		Track			Hammer Wt:	140 lbs.	•	10/24/23		er Casing Removed	None Noted	C	out
Rod Siz		AW			Hammer Fall:	30 in.		10/24/23	Afte	er Casing Removed	caved @ 8.5	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth		Sample		Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 359		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	1 .		0% / trace - 0 to 10%	0	RQD %
0	1A 1B	0.0 0.7	0.7 2.0	SS/15	1-2-4-10					Organic Material (1 e cmf SAND, trace		moist	6
1	16	0.7	2.0				medium sti		, 11111	e ciii sand, iiace	IIII GKAVEL (moist,	
1							inculum su	111)					
2	2	2.0	4.0	SS/14	5-7-4-3		Brown mot	tled cmf	SILT	and SAND, little n	nf GRAVEL (m	oist.	11
							stiff)			,		,	
3													
							Augered gr						
4	3	4.0	6.0	SS/18	1-3-5-6				, som	ne cmf SAND, little	e mf GRAVEL,	trace	8
							CLAY (we	t, stiff)					
5													
6	4	6.0	8.0	SS/15	6-7-1-2		Duorran mot	T 112 belt	and	cmf SAND, little n	of CDAVEL (w	at atiff	8
0	4	0.0	8.0	33/13	0-7-1-2		BIOWII IIIO	illed SIL I	anu	ciii sand, iitie ii	III OKA VEL (W	ci, Siiii <i>)</i>	8
7													
							 			- —			
8	5	8.0	9.9	SS/12	5-7-10-50@5"		Grey weath	nered RO	CK cl	hips and fragments,	, little mf GRAV	EL,	17
							trace SILT						
9							Auger refu						
10							Bottom of	Boring @	9.9'				
10													
11													
11													
12													
13													
14													
1.5													
15													
16													
17													
18													
19													
20													

	C	M	Ę	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION	Boring No. Page No.	1	-88 of 2
		ociates		I mone.	315-701-0522		TEST	DOM	NU	LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York	•					Date Started	10/2	20/23
Client:		Rambo	oll								Date Finished	10/2	20/23
Locatio	n:	See Ex	ploratio	on Locati	on Plan						Surface Elev.	40	4.6'
		ME	THO	DS OF	INVESTIGATIO	N			Gl	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo	n		Casing:	3 ¼" ID	H.S.A.	D 4		TP:	D 41 (E4)	a :	A (Æ()
Driller:		K. Cra	ndall		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect	or:	A. Sha	rma, EI	T	Other:			10/20/23		While Drilling	12.5	1	3.0
Drill Ri	ig:	CME 4	15		Soil Sampler:	2" OD S	Split Barrel	10/20/23	Bef	Fore Casing Removed	16.5		33
Type:		Track			Hammer Wt:	140 lbs.		10/20/23	Af	ter Casing Removed	11.5	(out
Rod Siz	ze:	AW			Hammer Fall:	30 in.		10/20/23	Af	ter Casing Removed	caved @ 25.2	(out
	LO	GOF	BOR	ING SA	AMPLES		VI	SUAL C		SSIFICATION C		L	
			e Depth										an
Depth	Sample		t.)	Type /	Blows on	Depth of		coarse		1 25 + 50	00/ / 20 +- 25	n./	SPT "N"
Scale (Feet)	No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			0% / some - 20 to 35 20% / trace - 0 to 109		or RQD %
0	1A	0.0	0.5	SS/16	1-2-4-6	(Ft.)			Mot	terial (moist)	10767 trace - 0 to 10	/0	6
U	1B	0.5	2.0	33/10	1-2-4-0	 				tle fine SAND, trace	CLAV trace P	OOTS	0
1	110	0.5	2.0						-	ie ilie SAND, liace	CLA1, Hace N	.0013	
1							(moist, me	aium suiii	.)				
2	2	2.0	4.0	SS/19	8-7-5-4		D	411 CIT T	1:44	de fine CAND trees	CIAV (vest at	:60	12
2	2	2.0	4.0	33/19	8-7-3-4		Brown ino	med SIL I	, 1111	le fine SAND, trace	e CLAY (wei, si	111)	12
2													
3													
				22/10				m 11: 1 - 6			<i>a</i> an .		
4	3	4.0	6.0	SS/18	1-2-1-4			T, little C	CLAY	Y, trace cmf SAND	, trace fine GRA	VEL	3
							(wet, soft)						
5													
6	4	6.0	8.0	SS/19	4-6-6-8		Brown SIL	T, some (CLA	Y, trace fine SAND	(wet, stiff)		12
7													
8	5	8.0	10.0	SS/20	5-8-9-11		Similar as	above (we	et, ve	ery stiff)			17
9													
10													
11													
12							Augered gr	avelly be	ginn	ing @ 12.0'			
13	6	13.0	15.0	SS/8	32-5-3-8		-	and cmf	SAN	D, some CLAY, so	me fine GRAVI	EL (wet,	8
							stiff)						
14													
	4												
15													
16													
							Augered gr	avelly be	ginn	ing @ 16.5'			
17													
18	7	18.0	18.8	SS/4	23-50@3"		Grey/Red	emf GRA	VEL	, little cmf SAND,	trace SILT (moi	st, very	50+
							compact)						
19													
]												
20	ī			1	Ī	1	10 0 1	D 0					

CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-88

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		LEST DOMING		Report No.	28062B-03-1	1223
					AMPLES		VISUAL CLAS	SIFICATION (L	
Depth Scale	Sample	(F	e Depth	Type / Sample	Blows on Sampler	Depth of Change	c - coarse m - medium		0% / some - 20 to 35%	%	T "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f - fine Continued from Page 1	little - 10 to 2	20% / trace - 0 to 10%	6 RQ	QD %
21 22							Continued from Fage 1				
23 24	8	23.0	24.5	SS/10	19-25-35		Grey SILT, some CLAY,	trace mf SAND (r	noist, hard)	6	60
25 26											
27 28	9	28.0	29.5	SS/10	18-26-50		Grev SILT and CLAY, lit	tle fine SAND, tra	ce mf GRAVEL	(wet.	76
29		20.0	23.0	55/10	10 20 00		Grey SILT and CLAY, little fine SAND, trace mf GRAVEL (wet, hard)				, ,
30											
31 32							Augered gravelly beginnii	ng @ 31.7'			
33	10	33.0	33.7	SS/5	53-50@2"		Similar as above (wet, har Augered to 34.2'	rd)		5	50+
34							Bottom of Boring @ 34.2'				
35 36											
37											
38											
39											
41											
42											
43 44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E		orporate Drive racuse, NY 13057	SU				LORATION	Boring No. Page No.		-90
	Ass	ciate	s. Inc	•	racuse, NY 1305/ 315-701-0522		TEST	BORI	NG	G LOG	Ü		
Description			2000	I none.							Report No. Date Started		3-03-1223
Project Client:	Name:	Rambo		us, Ciay,	New York						Date Started Date Finished		23/23
				T4	D1								
Locatio	n:		_	on Locati	INVESTIGATIO) NI				GROUNDWATER	Surface Elev.		06.0'
Driller:				DS OF		3 ¼" ID	II C A		G	KUUNDWAIER	OBSERVAI	IONS	
Driller:		H. Lyo K. Cra			Casing:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
			ndan rma, EI	т	Casing Hammer: Other:			10/23/23		While Drilling	8.0		3.0
Inspectory Drill Ri		CME 4		.1	Soil Sampler:	2" OD 9	Split Barrel	10/23/23	Da	efore Casing Removed	None Noted		8.5
Type:	g.	Track	† J		Hammer Wt:	140 lbs.	-	10/23/23		After Casing Removed	9.5		out
Rod Siz	ω.	AW			Hammer Fall:	30 in.		10/23/23	_	After Casing Removed	caved @ 14.5		out
Kou Siz			DΩD	INC S	AMPLES	30 111.	VI			ASSIFICATION C)		Jui
	LU			ING SE	AMITLES		V 15	SUAL C	LA	ASSIFICATION C	JE MIATEKIA	L	
Depth			e Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change		medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/16	2-2-3-4	 —				d Organic Material (5
	1B	0.5	2.0						SII	LT, trace fine SAND	o, trace CLAY (r	noist,	
1							medium sti	111)					
2		2.0	4.0	00/15	5 5 5 4		D CII	m ilui o	T .	W. C. CAND	(, , , ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		10
2	2	2.0	4.0	SS/15	5-5-5-4		Brown SIL	I, little C	LA	Y, trace fine SAND	(wet, stiff)		10
2													
3													
	_	4.0		GG /1 5	0.17.20.22		D /G	OH E		COLUMN	NT 4 T7 / . 1 :	D	4.6
4	3	4.0	6.0	SS/17	8-17-29-33		Brown/Gre	y SILT, t	race	e cmf SAND, trace C	CLAY (wet, hard	1)	46
	-												
5													
				~~ (0.1				_		1917			
6	4	6.0	8.0	SS/21	5-6-9-11		Brown SIL	T, some o	emf	SAND (wet, very sti	111)		15
_													
7													
	_	0.0	100	00/14	7 10 10 10		G /D 11	. 1 5		CODATED	CCLID		50
8	5	8.0	10.0	SS/14	5-10-40-40					nf GRAVEL and cm	f SAND, some S	SILT	50
							(moist, ver	y compac	t)				
9													
10	-												
10							, ,,			O 10.51			
1.1							Augered ho	ard begini	nıng	g @ 10.5"			
11													
10							4 1	1 11		ii () 13 ()			
12		10.6	12.0	00/2	50@2"					inning @ 12.6'	EI (50.
1.2	6	12.6	12.9	SS/2	50@3"		-	SAND and	a SI	ILT, little mf GRAV	EL (moist, very		50+
13							compact)						
1.4		140	142	99/2	50@2"		CmaryC	ит1	CAT	ND two as E CD AT	/ITI (mas:-4 1	./L	501
14	7	14.0	14.2	SS/2	50@2"		Grey cmt S	oil and	SAI	ND, trace fine GRAV	v EL (moist, hard	1)	50+
1.5	1												
15													
1.0													
16													
17													
17													
10	8	10 0	18.4	SS/4	50@5"		Croy CII T	and and	CAI	ND little fine CD AT	/EI (wat hand)		50+
18	8	18.0	16.4	33/4	50@5"					ND, little fine GRAV	EL (wet, nard)		30+
19							Auger refu. Bottom of	Sai (a) 18.	10	5'			
19							DOMOIII OI	boring (a)	10.	.3			
20	1	I											

T											- · ·		0.4
		R/			orporate Drive	SU	J BSURF	ACE EX	KPL	ORATION	Boring No.		-94
				•	racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 1
			s, Inc.	i none.	315-701-0522		11201	DOM			Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		24/23
Client:		Rambo									Date Finished		24/23
Locatio	n:			on Locati		3 T			CIP.	OINDWATED	Surface Elev.		6.8'
D 33				DS OF	INVESTIGATIO		II G A		GR	ROUNDWATER	OBSERVAT	IONS	
Driller: Driller:		H. Lyc K. Cra			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto			ndan irma, El	T	Casing Hammer: Other:			10/24/23		While Drilling	None Noted		_
Drill Ri		CME 4		11	Soil Sampler:	2" OD S	Split Barrel	10/24/23		ore Casing Removed	None Noted		_
Type:	s•	Track	15		Hammer Wt:	140 lbs.	-	10/24/23		er Casing Removed	None Noted		out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/24/23		er Casing Removed	caved @ 7.7		out
		G OF	BOR	ING S	AMPLES		VI			SIFICATION C	<u> </u>		
		1	e Depth		I				2110		T IVIII EILII		GDT ID III
Depth Scale	Sample		t.)	Type / Sample	Blows on Sampler	Depth of		coarse medium		and - 35 to 50	% / some - 20 to 35	0/2	SPT "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/14	1-2-2-2		Dark Brow	n SILT, 1	ittle f	ine SAND, trace R	OOTS (moist, n	nedium	4
							stiff)						
1													
													5
2	2	2.0	4.0	SS/15	2-2-3-4	Brown mottled SILT, little mf SAND, trace CLAY (moist, medium							
							stiff)						
3													
1	3	4.0	6.0	SS/14	3-9-11-14		Danarra an ar	μ1J CΠ Τ			· ···· f CD A VEI	tuana	20
4	3	4.0	0.0	55/14	3-9-11-14		CLAY (we			ne cmf SAND, little	e iiii GRAVEL,	trace	20
5							CLAT (WC	i, very sir	11)				
3							Augered gr	ravellv he	ginni	ng @ 6 0'			
6	4	6.0	8.0	SS/9	12-11-7-14					LT, some mf GRA	VEL (wet, med	ium	18
							compact)			,	,		
7							1 /						
8	5	8.0	8.9	SS/7	18-50@5"					and mf GRAVEL, 1	race SILT (mois	st, very	50+
							compact) .			<u>@</u> 8.9'			
9							Bottom of	Boring @	8.9'				
10	ŀ												
10													
11													
12													
13													
14													
1.5	ŀ												
15													
16													
10													
17													
18													
19													
20													

				6035 Co	orporate Drive	SI	IRSURFA	ACE EX	PL	ORATION	Boring No.	В	-96
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 1
	Asso	ciates	20 1100	i none.	315-701-0522		11231	DOKI	10.	LUG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		24/23
Client:		Rambo									Date Finished		24/23
Locatio	n:			n Locati							Surface Elev.		7.8'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller: Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	`	K. Cran		т	Casing Hammer: Other:			10/24/23		While Drilling	None Noted		_
Drill Ri		CME 4		.1	Soil Sampler:	2" OD S	plit Barrel	10/24/23		ore Casing Removed	None Noted		_
Type:	š•	Track	.5		Hammer Wt:	140 lbs.	piit Barrer	10/24/23		er Casing Removed	None Noted		out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/24/23		er Casing Removed	caved @ 9.1		out
			BOR	ING SA	AMPLES		VIS			SIFICATION O	Ŭ		
Donath		ı	Depth										SPT "N"
Depth Scale	Sample	(F		Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and - 35 to 50	% / some - 20 to 359	2/0	or or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1A	0.0	0.5	SS/17	1-WH-1-1		Topsoil and	d Organic	Mate	erial (moist)			1
	1B	0.5	2.0				Brown SIL	T, trace c	mf S	AND, trace CLAY,	, trace fine GRA	VEL	1
1							(moist, ver	y soft)					
2	2	2.0	4.0	SS/13	2-2-3-5				, littl	e cmf SAND, trace	mf GRAVEL (wet,	5
2							medium sti	ff)					
3													
4	3	4.0	6.0	SS/19	2-2-4-6		Drown mot	tlad SII T	and	omf SAND little n	of CDAVEL (w	ot	6
4	3	4.0	0.0	33/19	2-2-4-0	medium stiff)					III GKAVEL (W	ει,	
5							incaram su	11)					
							Augered gr	avelly be	ginni	ng @ 6.0'			
6	4	6.0	8.0	SS/15	12-12-12-14					ne mf GRAVEL, so	me cmf SAND	(wet,	24
							very stiff)						
7							L						
8	5	8.0	10.0	SS/10	14-28-35-35					igments, some cmf	GRAVEL, little	ecmf	63
0							SAND, tra	ce SILT (1	moist	:)			
9													
10	6	10.0	10.6	SS/4	20-50@1"		Similar as a	obovo (mo	sigt)				50+
10	0	10.0	10.0	33/4	20-30@1		Auger refu						301
11							Bottom of			1			
								8					
12													
13													
14													
15	ł												
15													
16													
17													
18													
19													
20													

				6035 Co	orporate Drive	SI	IRSURF	ACE EX	PI.	ORATION	Boring No.	B-	103
		IV			racuse, NY 13057			BORII			Page No.	1	of 1
	Asso	ociates	s, Inc.	Phone:	315-701-0522		1651	DUKI	1 G 1	LUG	Report No.	28062B	-03-1223
Project	Name:			us, Clay,	New York	-					Date Started		24/23
Client:		Rambo									Date Finished		25/23
Locatio	n:			on Locati			1		<u> </u>		Surface Elev.		8.5'
D 111				DS OF	INVESTIGATIO		II C A		GR	COUNDWATER	OBSERVAT	IONS	
Driller: Driller:		H. Lyo K. Cra			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			rma, El	T	Other:			10/24/23		While Drilling	None Noted		_
Drill Ri		CME 4			Soil Sampler:	2" OD S	plit Barrel	10/25/23		ore Casing Removed	None Noted		_
Type:	•	Track			Hammer Wt:	140 lbs.	1	10/25/23		er Casing Removed	None Noted	C	ut
Rod Siz		AW			Hammer Fall:	30 in.		10/25/23	Afte	er Casing Removed	caved @ 8.2	C	ut
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	řt.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 359	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	1 ~		0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/8	1-3-3-5					ine SAND, trace C	LAY, trace RO	STS	6
1							(moist, med	aium suii)				
1													
2	2	2.0	4.0	SS/6	5-5-6-9		Brown cm1	f GRAVE	L. soı	me SILT, little cmf	SAND (moist.	medium	11
							compact)		,	,	,		
3							1 /						
4	3	4.0	6.0	SS/18	2-3-4-5			T and cm	f SAl	ND, some mf GRA	VEL (moist, me	dium	7
							stiff)						
5										- —		. —	
6	4	6.0	8.0	SS/21	7-19-15-23		Cmay/Dmays	m CII T or	d mf	GRAVEL, some c	umf CAND (mai	at band)	34
0	4	0.0	8.0	33/21	7-19-13-23		Gley/Blow	ii SiLi ai	ia iiii	GKA VEL, Some C	IIII SAND (IIIOI	si, naru)	34
7													
,													
8	5	8.0	9.8	SS/12	25-25-34-39		Grey/Brow	n cmf GR	AVE	EL and SILT, some	cmf SAND (mc	ist, very	59
							compact)						
9							Auger refu						
10	-						Bottom of	Boring @	9.8'				
10													
11													
11													
12						1							
13						1							
						1							
14						1							
1.5	-					1							
15						1							
16													
10													
17													
18						1							
4.5													
19						1							
20	-												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks:

1. Offset by 5.0' south due to proximity with a tree.

				6035 Co	orporate Drive	CI.	IRCHIDE	ACE EX	ZDI 4	ORATION	Boring No.	B-	105
		IV			racuse, NY 13057						Page No.	1 (of 1
	Asso	ociates	s, Inc.	Phone:	315-701-0522		1651	BORI	NG	LUG	Report No.	28062B	-03-1223
Project	Name:	Micror	ı Camp	us, Clay,	New York	-					Date Started	10/2	25/23
Client:		Rambo									Date Finished	10/2	25/23
Locatio	n:			on Locati							Surface Elev.		6.4'
				DS OF	INVESTIGATIO		*** **		GR	ROUNDWATER	OBSERVAT	TONS	
Driller: Driller:		H. Lyo K. Cra			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect		A. Sha		T	Other:			10/25/23		While Drilling	None Noted		-
Drill Ri		CME 4		. 1	Soil Sampler:	2" OD S	plit Barrel	10/25/23		ore Casing Removed	None Noted		-
Type:	8.	Track			Hammer Wt:	140 lbs.	•	10/25/23		er Casing Removed	None Noted		out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/25/23		er Casing Removed	caved @ 5.6	C	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	e Depth	T/	Blows on	D 41 6	c -	coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/14	1-1-1-2			n SILT, l	ittle f	ine SAND, trace C	LAY, trace RO	OTS	2
1							(wet, soft)						
1													
2	2	2.0	4.0	SS/16	2-2-6-12		Brown mot	ttled SILT	, som	ne cmf SAND. little	e mf GRAVEL (wet.	8
					v	Brown mottled SILT, some cmf SAND, little mf GRAVEL (wet stiff)							
3							,						
4	3	4.0	6.0	SS/10	4-7-4-5		Brown/Gre	ey SILT a	nd cm	nf SAND, little mf	GRAVEL (wet,	stiff)	11
5													
6	4	6.0	6.4	SS/5	50@5"		Dark Brow	m/Grey ci	nf S A	AND and mf GRAV	/FI_some SILT	(moist	50+
		0.0	0.4	35/3	3000,3		very compa	-	III SA	and iii GRA	LL, some SIL1	(IIIOISI,	301
7							Augered gr		ginni	ng @ 6.3'			
							Bottom of						
8													
_													
9													
10													
10													
11													
12													
13													
1 , ,													
14													
15													
16													
17													
18													
19													
20	ł			1									

		M	F		orporate Drive	SU	JBSURFA	ACE EX	KPLC	ORATION	Boring No.		114
					racuse, NY 13057		TEST	BORI	NG I	OG	Page No.		of 1
		ociates	No.	i none.	315-701-0522		11201	DOM	1101	200	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		25/23
Client:		Rambo	oll								Date Finished	10/	25/23
Location	n:			on Locati							Surface Elev.		9.8'
		ME	THO	DS OF	INVESTIGATIO	N			GR	OUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo	n		Casing:	3 ¼" ID	H.S.A.	D 4		Tr.	D 41 (E4)	<i>c</i> ·	A ((T()
Driller:		K. Cra	ndall		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspecto	or:	A. Sha	rma, EI	T	Other:			10/25/23	,	While Drilling	None Noted		-
Drill Ri	g:	CME 4	15		Soil Sampler:	2" OD S	Split Barrel	10/25/23	Befor	e Casing Removed	None Noted		-
Type:		Track			Hammer Wt:	140 lbs.	-	10/25/23		r Casing Removed	None Noted	(out
Rod Size	e:	AW			Hammer Fall:	30 in.		10/25/23		r Casing Removed	caved @ 7.8	(out
			ROR	ING SA	AMPLES	1	VI			SIFICATION C			
	LU	T		110 51					2.71.01	311 101111011	, iviii Eitii		
Depth	G 1	Sample (F		Type /	Blows on	Depth of		coarse		1 25 50			SPT "N"
Scale (Fact)	Sample			Sample	Sampler	Change		medium			$\frac{10\%}{\text{some}} = 20 \text{ to } 35^{\circ}$		or POD %
(Feet)	No.	From 0.0	To 0.5	Rec. (in.) SS/14	Per 6 Inches 1-2-2-3	(Ft.)	Topsoil and	- fine	Mata		20% / trace - 0 to 109	0	RQD %
U				33/14	1-2-2-3					ND (moist, mediu			4
1	1B	0.5	2.0				Brown SIL	1, iittie ii	ine SA	IND (moist, meait	ım suii)		
1													
2	2	2.0	4.0	SS/16	2-3-2-8		Brown SIL (moist, med			ND, trace CLAY,	, trace mf GRAV	/EL	5
3							(moist, me	dium sum	,				
4	3	4.0	6.0	SS/14	4-8-14-20		Grey SILT (moist, ver		ND, some mf GRA	VEL, little CLA	AY	22	
5								,					
6	4	6.0	8.0	SS/15	14-20-21-25		Similar as	above (mo	oist, ha	ard)			41
7													
8	5	8.0	8.6	SS/5	40-50@1"		Grey/Brow compact)	n cmf GR	RAVE	L and SILT, little	cmf SAND (mo	ist, very	50+
9							Auger refu						
10							Bottom of	Boring @	9.5'				
11													
12													
13													
14													
15													
16 17													
18													
19													
17													

					orporate Drive	SI	J BSURF	ACE EX	PL	ORATION	Boring No.		116
					racuse, NY 13057			BORI			Page No.		of 2
	10.000000	ociates	and the same of	I Hone.	315-701-0522		11201	DOM	10	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		19/23
Client:		Rambo									Date Finished		20/23
Locatio	n:			on Locati		× × ×	1		~		Surface Elev.		6.3'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	TONS	
Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspect		K. Cra	ndali rma, EI	T	Casing Hammer: Other:			10/20/23		While Drilling	23.1	2	3.0
Drill Ri		CME 4		11	Soil Sampler:	2" OD S	Split Barrel	10/20/23		ore Casing Removed	32.6		3.5
Type:	š•	Track	r.J		Hammer Wt:	140 lbs.	-	10/20/23		er Casing Removed	None Noted		out
Rod Siz	æ:	AW			Hammer Fall:	30 in.				er Casing Removed	caved @ 32.4		out
			BOR	ING S	AMPLES		VIS			SSIFICATION C)		
		1	e Depth						2110		, iviii Eitii		an
Depth Scale	Sample	Sample (F	_	Type /	Blows on Sampler	Depth of		coarse medium		and 25 to 50	1% / some - 20 to 35	0/2	SPT "N" or
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1A	0.0	0.5	SS/17	2-6-7-7	()			Mate	erial (moist)			13
	1B	0.5	2.0			1				Γ, little fine SAND	, trace ROOTS ((moist,	1
1							stiff)						
2	2	2.0	4.0	SS/12	5-7-8-8		Brown SIL	T, little fi	ne Sa	AND, trace CLAY	(wet, very stiff)		15
3													
				GG (1.2	10.00.10			arr m 1					
4	3	4.0	6.0	SS/13	10-22-33-40					fine SAND, trace C	LAY (wet, hard	1)	55
-	ł						Augered gi	ravelly (a)	4.0'				
5													
6	4	6.0	8.0	SS/17	17-30-35-32		Similar as	ahove (mo	vict 1	ard)			65
	-	0.0	0.0	55/17	17-30-33-32		Sililiai as	above (III	<i>7</i> 131, 1	iaid)			0.5
7													
8	5	8.0	10.0	SS/14	8-4-4-7		Grey SILT	, some cm	ıf SA	ND, some CLAY,	trace fine GRA	VEL	8
							(wet, stiff)						
9													
10							Augered gr	ravelly be	ginni	ing @ 10.0' to 11.0	,		
11													
1.0													
12													
12	6	13.0	14.8	SS/18	4-17-47-50@3"		Gray CII T	como om	f C A	.ND, little CLAY, t	race fine CD AI	/FI	64
13	0	13.0	14.8	33/18	4-1/-4/-30(@3"		(moist, har		н 5А	IND, HILLE CLAY, I	Tace Tille GKAV	EL	04
14							Augered ha		nina l	@ 13 7'			
17							zingereu m	nu vegim	ung (w, 13.7			
15	1												
16													
17													
18	7	18.0	18.3	SS/3	50@3"		Grey cmf (GRAVEL,	som	e cmf SAND (mois	st, very compact)	50+
19													
20	1						Continued	D 2					
. 711					i e	1	H Continued	on Hogo					

CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-116

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From То Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 21 22 23 8 23.0 25.0 SS/12 12-29-25-27 Grey SILT, some cmf SAND, some mf GRAVEL, some CLAY 54 (moist, hard) 24 25 26 27 28 9 28.5 30.0 SS/16 33-75-41 Grey cmf SAND and SILT, little mf GRAVEL (wet, very compact) 116 29 30 31 32 33 Auger refusal @ 33.5' SS/0 50+ 10 33.5 33.5 50@0" No Recovery 34 Bottom of Boring @ 33.5' 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SU	J BSURF A	ACE EX	PL	ORATION	Boring No.		121
	Acer	ciates	Inc		racuse, NY 13057		TEST	BORI	NG :	LOG	Page No.		of 1
	12.24		S DAY	i none.	315-701-0522						Report No.		-03-1223
Project Client:	Name:	Micron		us, Clay,	New York						Date Started Date Finished		11/23
Location				n Locati	on Dlan						Surface Elev.		4.8'
Location	1.				INVESTIGATIO	N			GR	ROUNDWATER			7.0
Driller:		Brian S		22 01	Casing:	4 ¼" ID	H.S.A.		-				
Driller:		Jason I	Ersing		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto				na, EIT	Other:			09/11/23		While Drilling	None Noted		0.0
Drill Ri	g:	CME I	C 55		Soil Sampler:		plit Barrel	09/11/23		ore Casing Removed	None Noted		4.6
Type:		Track NWJ			Hammer Wt:	140 lbs.		09/11/23		er Casing Removed	None Noted		out
Rod Siz			D/D	INC S	Hammer Fall: MPLES	30 in.	VI	09/11/23		er Casing Removed SIFICATION C	caved @ 7.8		out
	LU			ING SE		1			LAS	I	T MIATERIA	L	
Depth Scale	Sample	Sample (F		Type /	Blows on Sampler	Depth of		coarse medium		and 25 to 50	% / some - 20 to 359	0/.	SPT "N"
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			0% / trace - 0 to 10%		or RQD %
0	1	0.0	2.0	SS/17	WH-1-2-3		Brown SIL	T, little c	nf S	AND, trace fine GF	RAVEL, trace Re	OOTS	3
							(moist, soft	t)					
1													
2	2	2.0	4.0	SS/12	4-6-6-7		Brown mot	tled SILT	'. son	ne cmf SAND, little	e mf GRAVEL (moist.	12
	_				,		stiff)		,	,	(,,	
3							ĺ						
4	3	4.0	6.0	SS/14	3-3-3-8		Similar as a	above (we	edium stiff)			6	
5													
3													
6	4	6.0	8.0	SS/13	11-20-18-26		Grey/Brow	n cmf SA	ND a	and SILT, little mf	GRAVEL (mois	st,	38
							compact)			·	`		
7													
0	_	0.0	0.7	00/12	21 20 70 100 21		D 1 C	CCAN	_	1 CODANEL 1'	4 OH T (' '		110
8	5	8.0	9.7	SS/13	21-39-79-100@2"		compact)	cmf SAN	D an	d mf GRAVEL, lit	tle SIL1 (moist,	very	118
9							compact)						
10													
11													
12													
12													
13	6	13.0	13.8	SS/7	37-100@3"		Grey cmf S	SAND and	l mf (GRAVEL, little SII	LT, little ROCK	fragmen	100+
							(moist, ver						
14							Auger refu						
15							Bottom of	Boring @	14.6	'			
13													
16													
17													
18													
10													
19													

	C	M	F		orporate Drive	SU	J BSURF	ACE EX	PL	ORATION	Boring No.		122
	Acer	ociates	Inc		racuse, NY 13057		TEST	BORI	NG :	LOG	Page No.		of 1
Danis			Stanton St	Thome.	315-701-0522	<u> </u>					Report No.		-03-1223
Project Client:	Name:	Rambo		us, Ciay,	New York						Date Started Date Finished		11/23
Location	n•			n Locati	on Plan						Surface Elev.		8.8'
Location					INVESTIGATIO	N			GR	ROUNDWATER			0.0
Driller:		Brian S		2001	Casing:	4 ¼" ID	H.S.A.	_					
Driller:		Jason I	Ersing		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	Astitwa	a Sharn	na, EIT	Other:			09/11/23		While Drilling	None Noted	8	3.0
Drill Ri	g:	CME I	LC 55		Soil Sampler:		plit Barrel	09/11/23		ore Casing Removed	None Noted		13
Type:		Track			Hammer Wt:	140 lbs.		09/11/23		er Casing Removed	None Noted		out
Rod Siz		NWJ	DOD!	DIG G	Hammer Fall:	30 in.	X 77.0	09/11/23		er Casing Removed	caved @ 7.5		out
	LO	1		ING SA	MPLES	<u> </u>	VIS	SUAL C	LAS	SIFICATION C	OF MATERIA	L	1
Depth		Sample		Type /	Blows on	Depth of		coarse					SPT "N"
Scale (Feet)	Sample No.	(F From	To	Sample	Sampler Per 6 Inches	Change		medium - fine			% / some - 20 to 359 0% / trace - 0 to 10%		or RQD %
0	1	0.0	2.0	Rec. (in.) SS/18	WH-1-2-3	(Ft.)			1itt1	e cmf SAND, trace			3
	1	0.0	2.0	55/10	WII 1 2 3		ROOTS (n			c chin Starts, trace	Time Graff EE,	trace	
1							`	, ,					
2	2	2.0	4.0	SS/14	10-12-23-36			tled SILT	, littl	e cmf SAND, trace	fine GRAVEL	(moist,	35
							hard)						
3													
4	3	4.0	6.0	SS/18	20-25-36-33		Drown CII	Т сото с	mf S	AND, little mf GR	AVEL (moist h	ord)	61
4	3	4.0	0.0	33/10	20-23-30-33		Blown SIL	1, some c	ли з	AND, IIIIE IIII GR	AVEL (moist, m	aru)	01
5													
6	4	6.0	8.0	SS/15	36-38-43-40		Brown/Red	cmf SAN	ND, s	ome mf GRAVEL,	, little SILT (mo	ist, very	81
							compact)						
7													
0	_	9.0	10.0	00/16	20 50 57 50		C/D	£C.A	NID	CH T	CDANEL 1:4	41 -	107
8	5	8.0	10.0	SS/16	39-50-57-59					some SILT, some r very compact)	ni GRAVEL, iii	tie	107
9							KOCK nag	gilients (iii	юізі,	very compact)			
10													
11													
10													
12													
13	6	13.0	13.3	SS/2	100@3"		Grev cmf S	SAND and	l mf (GRAVEL, little SII	LT. little ROCK		100+
13		15.0	13.3	55/2	10003		fragments (zr, mue noen		100
14							Auger refu		•	1 /			
							Bottom of	Boring @	13.6	1			
15													
16													
17													
1 /													
18													
19													

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		123 of 2
	Ass	ociate	s, Inc.	•	315-701-0522		TEST	BORI	NG	LUG	Report No.	28062E	3-03-1223
Project	Name:	Micror	n Camp	us, Clay,	New York	·!					Date Started		11/23
Client:		Rambo	oll								Date Finished	09/	11/23
Locatio	n:	See Ex	ploration	on Locati	on Plan						Surface Elev.	41	8.3'
			_		INVESTIGATIO	N			GF	ROUNDWATER		IONS	
Driller:		Brian S	Swartz		Casing:	4 ¼" ID	H.S.A.	ъ.		7 73*	D 41 (F())	<i>a</i> .	A . (TS)
Driller:		Jason I	Ersing		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect	or:	Astitw	a Sharn	na, EIT	Other:			09/11/23		While Drilling	3.8	4	1.0
Drill Ri	g:	CME I	LC 55		Soil Sampler:	2" OD S	Split Barrel	09/11/23	Befo	ore Casing Removed	None Noted	2	0.2
Type:		Track			Hammer Wt:	140 lbs.		09/11/23		er Casing Removed	4	C	out
Rod Siz		NWJ			Hammer Fall:	30 in.		09/11/23		er Casing Removed	cave @ 6.4		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	D. d. C	c -	coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	20% / trace - 0 to 109	%	RQD %
0	1	0.0	2.0	SS/6	WH-WH-1-4		Brown SIL	T, little n	nf SA	ND, trace ROOTS	(moist, very sof	it)	1
1													
2	2	2.0	4.0	SS/14	7-11-13-16		Brown SII	LT, some	mf S.	AND (wet, very sti	ff)		24
3													
	_								_				
4	3	4.0	6.0	SS/15	6-17-23-27		Brown SIL	T, some f	ine S	AND (wet, hard)			40
_													
5													
(١,	(0	0.0	GG/24	24 22 41 44		D CII	т (~ ດ	AND (, 1 1)			72
6	4	6.0	8.0	SS/24	34-32-41-44		Brown SIL	1, some I	ine S	AND (wet, hard)			73
7													
/													
8	5	8.0	10.0	SS/19	19-31-38-43		Gray/Pray	n SII T o	nd an	nf SAND, little fine	CDAVEL (was	t hard)	69
0	3	0.0	10.0	33/19	19-31-30-43		Gley/Blow	ii SiLi ai	na cn	ii SAND, iille iille	GRAVEL (WE	i, maru)	09
9													
9													
10	1												
10													
11													
12													
13													
	6	13.0	13.8	SS/9	41-100@3"		Grey/Red	emf SANI	D, so	me SILT, little cmf	GRAVEL (wet	, very	100+
14					_		compact)				•		
15													
16													
17													
10		10.0	10.4	00/11	21 (1 100 7"		De 1 C	CC 4.3.3	ID.		1:41 - CH T ()		100:
18	7	18.0	19.4	SS/11	31-61-100@5"			cmt SAN	D, so	ome mf GRAVEL,	little SILT (wet,	, very	100+
10							compact)						
19													
20	1					1	G .: 1	D 0					

C	Viociates,	E Inc
LO	G OF I	3OR
	C 1	D (1

6035	Corporate Drive
East S	yracuse, NY 13057
	215 501 0522

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-123

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone: 3	315-701-0522		TEST BORING LO	JG	Report No. 280	062B-03-1223
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLASS	IFICATION C		
Depth Scale	Sample	Sample (F	e Depth (t.)	Type / Sample	Blows on Sampler	Depth of Change	c - coarse m - medium	and - 35 to 50	% / some - 20 to 35%	SPT "N"
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f - fine	little - 10 to 2	20% / trace - 0 to 10%	RQD %
20							Continued from Page 1 Auger refusal @ 20.2'			
21							Bottom of Boring @ 20.2'			
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40	1									
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E		orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		151 of 2
	Ass	ciate	s, Inc.	•	315-701-0522		TEST	BORI	NG	LOG	Report No.		3-03-1223
Project			S. Land	I none.	New York						Date Started		26/23
Client:	ivaine.	Rambo		us, Ciay,	New Tork						Date Started Date Finished		26/23
Location	n•			on Locati	on Plan						Surface Elev.		3.5'
Locatio			_		INVESTIGATIO	N			GF	ROUNDWATER			3.3
Driller:		B. Flet		D 5 O 1	Casing:	3 ¼" ID	H.S.A.		<u> </u>				
Driller:		R. Cas			Casing Hammer:	0 /4 12		Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:				Other:	NQ-Cor	·e	10/26/23		While Drilling	None Noted	2	3.9
Drill Ri		CME 5	550X		Soil Sampler:	-	Split Barrel	10/26/23	Befo	ore Casing Removed	None Noted		3.9
Type:		ATV			Hammer Wt:	140 lbs.	-	10/26/23		er Casing Removed	None Noted	(out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		10/26/23	Aft	er Casing Removed	caved @ 13.8	(out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	F MATERIA	L	
Danth			e Depth		Blows on								SPT "N"
Depth Scale	Sample	_	t.)	Type / Sample	Sampler	Depth of Change		coarse medium		and - 35 to 50	% / some - 20 to 35%	6	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/7	1-3-6-8		Light Brov	vn/Grey S	ILT,	trace fine SAND, t	race ROOTS (m	oist,	9
							stiff)	•		•	`		
1													
2	2	2.0	4.0	SS/15	9-8-8-7		Light Brov	vn SILT, t	trace	fine SAND (moist,	very stiff)		16
3													
4	3	4.0	6.0	SS/19	5-8-12-12		Light Brov	vn SILT, t	trace	fine SAND (moist,	very stiff)		20
5													
-													
6	4	6.0	8.0	SS/18	10-11-9-10		_	vn SILT, t	trace	fine SAND, trace c	mf GRAVEL (n	noist,	20
7							very stiff)						
7													
0	_	0.0	10.0	GG/20	5 10 0 11		I :-1-4 C	CILT 4		CAND (10
8	5	8.0	10.0	SS/20	5-10-8-11		Light Grey	SIL1, tra	ice III	ne SAND (moist, v	ery sum)		18
9													
9													
10	1												
10													
11													
-													
12													
13													
	6	13.5	15.0	SS/18	12-12-6		Similar as	above (m	oist, v	very stiff)			18
14													
15													
16													
17													
10													
18	_	10.7	20.0	00/10	5 10 14		C CH T	1:24	r OP	AMEL 4 C C	AND		26
10	7	18.5	20.0	SS/18	5-12-14		Grey SILT	, little cm	1 GR	AVEL, trace fine S	AND (moist, vei	ry stiff)	26
19													
20	Į							D (

Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-151

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		TEST BORING LO	G	Report No. 2800	62B-03-1223
	LOG OF BORING SAMPLES Depth Sample Depth Type Blows on						VISUAL CLASSII	FICATION (
Depth Scale (Feet)	Sample No.	Sample		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1			
21										
22 23										
	8	23.5	23.9	SS/5	100@5"		Grey SILT, trace mf GRAVE	EL, trace fine S.	AND (moist, hard)	100+
24							Bottom of Boring @ 23.9'			
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41 42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	ΙE	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		152 of 2
	Ass	ociate	s, Inc.	Phone:	315-701-0522		IESI	BORI	NGI	LUG	Report No.	28062B	-03-1223
Project	Name:	Micron	ı Camp	us, Clay,	New York						Date Started	10/2	24/23
Client:		Rambo	oll	-							Date Finished	10/2	24/23
Locatio	n:	See Ex	ploration	on Locati	on Plan						Surface Elev.	40	2.9'
		ME	ТНО	DS OF	INVESTIGATIO	N			GR	OUNDWATER		IONS	
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	Data		Time	Donth (Et.)	Casina	A 4 (E4)
Driller:		R. Cas	atelli		Casing Hammer:			Date			Depth (Ft.)	Casing	At (Ft.)
Inspect					Other:	NQ-Cor		10/24/23		While Drilling	23.2	2:	3.5
Drill Ri	g:	CME 5	550X		Soil Sampler:		Split Barrel	10/24/23		re Casing Removed	30.0	30	0.8
Type:		ATV			Hammer Wt:	140 lbs.		10/24/23		r Casing Removed	None Noted	C	out
Rod Siz		AWJ			Hammer Fall:	30 in.		10/24/23		r Casing Removed	caved @		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35%	6	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%	ó	RQD %
0	1A	0.0	1.0	SS/17	1-4-8-8		Topsoil and	d Organic	Mate	rial (moist)			4
1	1B	1.0	2.0				Light Brow	vn SILT, t	trace f	ine SAND (moist,	medium stiff)		
2	2	2.0	4.0	SS/18	7-8-7-7		Light Brow	vn SILT, 1	trace f	ine SAND (moist,	very stiff)		15
3													
4	3	4.0	6.0	SS/20	4-7-10-13		Light Brow	vn SILT, 1	trace f	ine SAND (moist,	very stiff)		17
5													
6	4	6.0	8.0	SS/19	13-12-12-8		Similar as	above (me	oist, ve	ery stiff)			24
7													
8	5	8.0	10.0	SS/23	3-6-6-8		Light Brow	vn/Light (Grey S	ILT, trace fine SA	AND (moist, stiff))	12
9													
10													
11													
12													
13		12.5	1.5.0	00/10	4 7 1 4		T : 1 : C	OII T	~	CAND	1:00		22
14	6	13.5	15.0	SS/18	4-7-16		Light Grey	SIL1, tra	ice fin	e SAND (wet, ver	y stiff)		23
15	1												
16													
17													
18													
	7	18.5	20.0	SS/15	6-4-5		Light Grey	SILT, lit	tle cm	f GRAVEL, little	fine SAND (moi	st, stiff)	9
19													
20	1						la .: 1	D 6	,				I

CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No. B-152
Page No. 2 of 2
Report No. 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		TEST DOMING	LOG	Report No.	28062B-	03-1223
	LOG OF BORING SAMPLES Suppli Sample Depth (Ft.) Sample Sample Sample Sample Sample						VISUAL CLAS	SIFICATION (
Depth Scale (Feet)	Sample No.					Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35' 20% / trace - 0 to 109		SPT "N" or RQD %
20212223	8	23.5	25.0	SS/7	15-15-18		Continued from Page 1 Light Grey SILT and cmf	GRAVEL/COBB	I F nieces little	fine	33
24252627		23.5	23.0	55,7	10 10		SAND (moist, hard)	GIGT VED COSS	22 pieces, naie		
28 29 30	9	28.5	30.0	SS/10	31-45-58		Dark Grey SILT, some hig fine SAND (moist, hard) Auger refusal @ 30.8'	ghly weathered RG	OCK fragments,	trace	103
31 32							Bottom of Boring @ 30.8'				
33 34											
35 36											
37 38											
394041											
42 43											
44											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	F		orporate Drive	SU	JBSURFA	ACE EX	(PL	ORATION	Boring No.		153
	Acc	ociates	Inc		racuse, NY 13057		TEST	BORI	NG :	LOG	Page No.		of 2
			20	i none.	315-701-0522						Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo		Ŧ .·	DI.						Date Finished		26/23
Locatio	n:			on Locati	on Plan INVESTIGATIO	NT.			CE	ROUNDWATER	Surface Elev.		4.4'
Driller:		B. Flet			Casing:	3 ¼" ID	нсл		Gr	KOUNDWAIEK	ODSERVAL	IONS	
Driller:		R. Cas			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto		10 000			Other:	NQ-Cor	e	10/26/23		While Drilling	10.6	2:	3.5
Drill Ri		CME 5	50X		Soil Sampler:	-	Split Barrel	10/26/23	Befo	ore Casing Removed	10.6		3.5
Type:	_	ATV			Hammer Wt:	140 lbs.		10/26/23	Aft	er Casing Removed	6.5	C	out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		10/26/23	Aft	er Casing Removed	caved @ 6.2	C	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	F MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 35%	ó	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/17	2-4-5-6		Light Brow	n SILT, t	race	fine SAND, trace F	ROOTS (moist, s	tiff)	9
1													
1													
2	2	2.0	4.0	SS/15	5-5-5-5		Light Brow	m SILT t	race	fine SAND (moist,	stiff)		10
	1 -	2.0	1.0	55/15	3 3 3 3		Light Brov	in Silli, t	iucc	ime Start (moist,	Still)		10
3													
4	3	4.0	6.0	SS/22	4-9-11-11		Light Brow	n SILT, t	race	fine SAND (moist,	very stiff)		20
5													
			0.0	~~ <i>(</i> 2. 4	0.40.7.0		a: ::						4.5
6	4	6.0	8.0	SS/24	8-10-7-8		Similar as	above (mo	oist, v	very stiff)			17
7													
/													
8	5	8.0	10.0	SS/22	4-7-6-6		Similar as	above (mo	oist. s	stiff)			13
Ü		0.0	10.0	22,22	., 00					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10
9													
10													
11													
12													
12													
13													
	6	13.5	15.0	SS/16	3-5-4		Light Grey	SILT, tra	ce fi	ne SAND (moist, st	tiff)		9
14											,		
15													
16													
17													
17													
18													
	7	18.5	20.0	SS/14	4-15-4		Grey SILT	, little cm	f GR	AVEL, little fine S.	AND (moist, ver	y stiff)	19
19]	-		•	, ,	• /	
20	i	1				1	10 1	D 0					

CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-153

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.5 SS/12 7-43-100@3" Dark Grey weathered ROCK fragments, little SILT (wet) 100 +24.8 24 Bottom of Boring @ 24.8' 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SI	J BSURF	ACE EX	EPLO	ORATION	Boring No.		160
					racuse, NY 13057			BORI			Page No.		of 2
		ociates	S. Land	I none.	315-701-0522		11251	DOM	. 10		Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		30/23
Client:		Rambo									Date Finished		30/23
Locatio	n:			on Locati		. .	1		C.D.		Surface Elev.		5.1'
				DS OF	INVESTIGATIO				GR	COUNDWATER	OBSERVAT	TONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspect		R. Cas	atelli		Casing Hammer: Other:	NQ-Cor		10/30/23		While Drilling	21.7	2	8.5
Drill Ri		CME 5	50Y		Soil Sampler:	-	e Split Barrel	10/30/23		ore Casing Removed	21.7		8.5
Type:	·s•	ATV	3071		Hammer Wt:	140 lbs.	-	10/30/23		er Casing Removed	None Noted		out
Rod Siz	ze:	AWJ			Hammer Fall:	30 in.		10/30/23		er Casing Removed	caved @ 6.0		out
			BOR	ING SA	AMPLES	1	VI			SIFICATION C)		
			e Depth	1100					2.10		, iviii Eitii		an
Depth Scale	Sample	Sample (F	_	Type /	Blows on Sampler	Depth of		coarse medium		and 35 to 50	1% / some - 20 to 35	0/2	SPT "N" or
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/15	WH-1-2-3		Light Brow	n SILT, t	race 1	fine SAND, trace I	ROOTS (moist, s	soft)	3
											·	ŕ	
1													
2	2	2.0	4.0	SS/17	5-5-5-5		Light Brow	n SILT, t	race i	fine SAND (moist,	stiff)		10
2													
3													
4	3	4.0	6.0	SS/24	5-6-7-10		Light Dugg	CII T 4		En a CAND (maist	atiff)		13
4	3	4.0	0.0	33/24	3-0-7-10		Light Brow	/n Sili, t	race	fine SAND (moist,	suii)		13
5	_												
6	4	6.0	8.0	SS/20	7-8-8-12		Similar as	above (mo	oist, v	ery stiff)			16
								`		,			
7													
8	5	8.0	10.0	SS/16	10-11-10-11		Light Brow	/n/Light C	Grey S	SILT, trace fine SA	ND (moist, very	y stiff)	21
9													
10	-												
10													
11													
''													
12													
13													
	6	13.5	15.0	SS/12	10-11-14		Grey SILT	, little cm	f GR	AVEL, trace fine S	SAND (moist, ve	ry stiff)	25
14													
1.5													
15													
16													
10													
17													
18													
	7	18.5	20.0	SS/17	27-28-34		Similar as	above (mo	oist, h	ard)			62
19													
	_							_					
20	1	1	1	Ī	Ī	1	Continued	on Dogo ?)				i

Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-160

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

					315-701-0522		1ESI DOMING I			28062B-03-1223
					AMPLES		VISUAL CLASS	SIFICATION (OF MATERIA	L
Depth Scale (Feet)	Sample No.			Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35° 20% / trace - 0 to 10°	
20							Continued from Page 1			
21										
22										
23	8	23.5	25.0	SS/18	20-30-44		Similar as above (wet, har	d)		74
24							,			
25										
26										
27										
28	9	28.5	30.0	SS/15	20-40-100@5"		Similar as above (moist, h	ard)		100+
29							D. (CD : 0 20 0)			
30							Bottom of Boring @ 30.0'			
32										
33										
34										
35										
36										
37										
38										
39										
40										
42										
43										
44										
45	-									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

						П							
					orporate Drive	SU	JBSURFA	ACE EX	KPL	ORATION	Boring No.		161
	Acc		lus.		racuse, NY 13057			BORI			Page No.		of 2
		ociates	S. Land	I Hone.	315-701-0522		1101	- DOM	. , •		Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		25/23
Client:		Rambo		Ŧ	DI.						Date Finished		25/23
Locatio	n:			on Locati	on Plan INVESTIGATIO	NT.			CD	OUNDWATED	Surface Elev.		4.6'
Driller:		B. Flet		DS OF	Casing:	3 ¼" ID	ПСУ		Gr	ROUNDWATER	OBSERVAL	IUNS	
Driller:		R. Cas			Casing Hammer:	3 /4 ID	11.3.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect		R. Cas	atem		Other:	NQ-Cor	re	10/25/23		While Drilling	None Noted	3	3.8
Drill Ri		CME 5	550X		Soil Sampler:	-	Split Barrel	10/25/23		ore Casing Removed	None Noted		-
Type:	_	ATV			Hammer Wt:	140 lbs.		10/25/23		er Casing Removed	None Noted	C	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		10/25/23	Aft	er Casing Removed	caved @	C	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample	(F	r	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35%	6	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/11	2-4-6-8		Light Brow	vn SILT, t	race	fine SAND, trace I	ROOTS (moist, s	tiff)	10
1													
2	2	2.0	4.0	SS/20	7-7-8-8		Light Drov	ın SII T	raco	fine SAND (moist,	very stiff)		15
		2.0	7.0	33/20	/-/-0-0		Light Blow	vii SILI, l	iact.	inic SAND (IIIOISI,	very suiti)		13
3													
						Lists Down CH T to a few CAND (waits over 4:50)							
4	3	4.0	6.0	SS/24	4-6-9-12	Light Brown SILT, trace fine SAND (moist, very stiff)							15
						Light Brown SIL1, trace line SAND (moist, very still)							
5													
6	4	6.0	8.0	SS/23	12-12-13-10		Similar as	above (mo	oist, v	ery stiff)			25
7													
7													
8	5	8.0	10.0	SS/23	5-7-8-7		Similar as	above (mo	nist x	very stiff)			15
		0.0	10.0	55/23	3 7 0 7		Similar as	acove (iii	0150, 1	(Cry Stiff)			13
9													
10]												
11													
12													
12													
13													
	6	13.5	15.0	SS/16	5-4-7		Light Grev	SILT. tra	ice fii	ne SAND (moist, s	tiff)		11
14								,		(, 0	,		
]												
15													
16													
17													
17													
18													
10	7	18.5	20.0	SS/7	15-4-8	Light Grey/Light Brown SILT, little cmf GRAVEL, little fine SAND					12		
19	′	10.5	20.0	00//	13-7-0		(moist, stif		OWILL	Jili, muc omi ON	arvee, nuic illi	COAND	12
							(1110131, 5111	-)					
20	1		I				Continued	on Dogo	,				Ī

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-161

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522						TEST BORING	LOG	Report No.	28062B-	03-1223
					AMPLES		VISUAL CLAS	SIFICATION (OF MATERIA	L	
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	%	SPT "N" or RQD %
2021222324	8	23.5	25.0	SS/14	1-2-9		Continued from Page 1 Light Grey SILT, little cm	nf GRAVEL, little	fine SAND (mo	ist, stiff)	11
25 26 27											
28 29 30 31	9	28.5	29.8	SS/15	95-72-100@4"		Augers harder beginning Light Grey SILT, little cm hard)		fine SAND (mo	ist,	100+
32 33 34 35	10	33.5	33.8	SS/9	100@3"		Similar as above (moist, h Bottom of Boring @ 33.8'				100+
36373839											
40 41 42											
43 44 45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SU	JBSURFA	ACE EX	KPL	ORATION	Boring No.		162
					racuse, NY 13057			BORI			Page No.		of 2
		ociates	S. Land	I Hone.	315-701-0522		11251	DOM		LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			on Locati							Surface Elev.		1.3'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atellı		Casing Hammer:	NO G		10/26/22		Ma 1 D 111			
Inspecto		CME	50V		Other: Soil Sampler:	NQ-Cor		10/26/23		While Drilling	22.1 22.1		3.5
Drill Ri Type:	g:	CME 5)30A		Hammer Wt:	2 OD S	Split Barrel	10/26/23		ore Casing Removed er Casing Removed	None Noted		out
Rod Siz	۵.	AWJ			Hammer Fall:	30 in.		10/26/23		er Casing Removed	caved @ 9.0		out
Kou Siz			P∩D	INC S	AMPLES	30 m.	VI			SIFICATION C)		out
		T		ING SE			V 1)	SUAL C	LAS	I	T MATERIA	L	1
Depth	٠,	Sample (F	e Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale (Feet)	Sample	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			% / some - 20 to 35° 0% / trace - 0 to 10°		or POD %
0	No.	0.0	1.0	SS/16	1-2-4-7	(Ft.)			Mate	erial (moist)	.0767 trace - 0 to 107	'0	RQD %
U	174	0.0	1.0	55/10	1-2-4-7		1 opsoil an	a Organic	ivian	criar (moist)			1
1	1B	1.0	2.0				Light Brow	n SILT, t	race	fine SAND (moist,	medium stiff)		
2	2	2.0	4.0	SS/24	8-7-8-7		Light Brow	n SILT, t	race	fine SAND (moist,	very stiff)		15
3													
4	3	4.0	6.0	SS/20	4-6-8-9		Light Brow	n SILT, t	race	fine SAND (moist,	stiff)		14
5													
6	4	6.0	8.0	SS/20	8-9-8-16		Light Brow	/n/Light C	Grey S	SILT, trace fine SA	ND (moist, very	stiff)	17
_													
7													
0	_	9.0	10.0	00/17	2226		I :-1-4 C	CILT 4	c	CAND (4:4:60		
8	5	8.0	10.0	SS/17	3-3-3-6		Light Grey	SIL1, tra	ice III	ne SAND (moist, n	nedium stiff)		6
0													
9													
10	1												
10													
11													
]													
12													
13													
	6	13.5	15.0	SS/15	6-6-5		Similar as	above (mo	oist, s	tiff)			11
14								(, -	,			
15													
16													
17													
10													
18	7	10 5	20.0	00/7	2 2 2		I iala C	CII T	~ ~	o CDAVEL (for CAND (.:	
19	7	18.5	20.0	SS/7	3-3-3		medium sti		ice III	ne GRAVEL, trace	line SAND (mo	oist,	6
17							medium St	11)					
20	1						Continued	on Dage 7	,				

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-162

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.5 25.0 SS/12 17-52-65 Dark Grey weathered ROCK fragments, little SILT (moist) 117 24 25 Bottom of Boring @ 25.0' 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SI	J BSURF	ACE EX	(PL	ORATION	Boring No.		163
					racuse, NY 13057			BORI			Page No.		of 2
	Ass	ociates	2 march	i none.	315-701-0522		11251	DOM	110	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		25/23
Client:		Rambo									Date Finished	10/	25/23
Locatio	n:			on Locati				1			Surface Elev.		00.5'
				DS OF	INVESTIGATIO				GR	OUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atellı		Casing Hammer:	NO G		10/25/22		111 1 D 111		,	
Inspect		CME	50V		Other:	NQ-Cor		10/25/23		While Drilling	5.6 None Noted	1	8.5
Drill Ri Type:	g:	CME 5)3UA		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	10/25/23 10/25/23		er Casing Removed	None Noted None Noted		out
Rod Siz	·e•	AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @		out
Kou Siz			B∪D.	INC S	AMPLES	30 III.	VI			SIFICATION C)		Jui
	LO			ING SE			V 1)	SUAL C	LAS		JE WIATEKIA	LL.	
Depth		Sample (F	e Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			9% / some - 20 to 35° 20% / trace - 0 to 10°		or RQD %
0	1A	0.0	1.0	SS/16	WH-WH-2-4	(Ft.)	Topsoil and		Matt		.0767 trace - 0 to 10:	/0	2
U	171	0.0	1.0	55/10	W11-W11-2-4		1 opsoil an	d Organic	Iviati	er (moist)			
1	1B	1.0	2.0				Light Brow	vn SILT, t	race	fine SAND (moist,	soft)		
2	2	2.0	4.0	SS/18	4-6-5-5		Light Brow	vn SILT, t	race	fine SAND (moist,	stiff)		11
										,			
3													
4	3	4.0	6.0	SS/17	3-4-5-7		Light Brow	vn SILT, t	fine SAND (moist,	stiff)		9	
5													
				22/10			*	GTT	~	G.1375 ()			
6	4	6.0	8.0	SS/19	4-5-12-12		Light Grey	SILT, tra	ice fii	ne SAND (moist, v	ery stiff)		17
7													
7													
8	5	8.0	10.0	SS/17	2-1-4-4		Light Grey	SII T tra	ice fir	ne SAND (moist, n	nedium stiff)		5
0		0.0	10.0	55/17	2-1-4-4		Light Gicy	SIL1, ua	icc iii	ic sand (moist, ii	iculum sum)		3
9													
10													
11													
12													
13													
1,3	6	13.5	15.0	SS/13	5-3-3		Light Grev	SILT tra	ice fir	ne SAND (moist, n	nedium stiff)		6
14		13.3	15.0	00/13	J-J-J		Light Olcy	J111, 110	111	D. 11 (1110131, 11	ioaiaiii stiiij		
'													
15	1												
16													
17													
18													
	7	18.5	20.0	SS/16	8-15-20		Dark Grey	weathere	d RO	CK fragments, littl	e SILT (wet)		35
19													
20	-						Continued	D 2	,				
711							u ontiniiod	on Hogo	,				

CME
Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-163

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone: 1	315-701-0522		TEST BORING LO)G	Report No. 2806	2B-03-1223
	Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES					1	VISUAL CLASSII	FICATION C		
Donth			e Depth		Blows on	†				SPT "N"
Depth Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change	c - coarse m - medium	and - 35 to 50	% / some - 20 to 35%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f - fine	little - 10 to 2	0% / trace - 0 to 10%	RQD %
20							Continued from Page 1			
21										
22							Auger refusal @ 22.0' Bottom of Boring @ 22.0'			
22							Dottom of Bornig @ 22.0			
23										
24										
25	1									
23										
26										
27										
28										
20										
29										
30										
21										
31										
32										
33										
2.4										
34										
35										
36										
25										
37										
38										
39										
	_									
40										
41										
71										
42										
43										
11										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SU	JBSURFA	ACE EX	(PL	ORATION	Boring No.		164
					racuse, NY 13057			BORI			Page No.		of 2
		ociates	S. Land	i none.	315-701-0522		11201	DOM	.10	200	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			on Locati							Surface Elev.		2.6'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atellı		Casing Hammer:	NO G		10/26/22		Ma 1 D 111			
Inspecto Drill Ri		CME 5	50V		Other:	NQ-Cor		10/26/23		While Drilling	13.9		3.5
Type:	g:	ATV)30A		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	10/26/23		ore Casing Removed er Casing Removed	None Noted		out
Rod Siz	۵۰	AWJ			Hammer Fall:	30 in.		10/26/23		er Casing Removed	caved @ 5.0		out
Kou Siz			P∩D	INC S	AMPLES	30 III.	VI			SIFICATION C)		out
		T		ING SA	AMII LES		V 1)	SUAL C	LAS	I	JI WIATEKIA	L	1
Depth		_	e Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale (Feet)	Sample	(F From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			1% / some - 20 to 35 10% / trace - 0 to 109		or
0	No.	0.0	2.0	SS/16	1-2-2-4	(Ft.)			race	fine SAND, trace F			RQD %
U	1	0.0	2.0	55/10	1-2-2-4		stiff)	vii SiLi, t	racc .	illie SAND, trace i	COOTS (IIIOISI, I	incurum	
1							Juli)						
1													
2	2	2.0	4.0	SS/17	4-4-4-3		Light Brow	vn SILT, t	race	fine SAND (moist,	stiff)		8
								,		,	,		
3													
4	3	4.0	6.0	SS/15	1-2-4-6		Light Brow	vn SILT, t	fine SAND (moist,	medium stiff)		6	
5]												
6	4	6.0	8.0	SS/23	6-6-7-9		_	vn SILT, t	race	fine SAND, trace o	m GRAVEL (m	ioist,	13
							very stiff)						
7													
0	-	0.0	10.0	GG /0.4	4 6 12 16		T 1 1 . D	CII T		C CAND	CCD AVEL (٠,	10
8	5	8.0	10.0	SS/24	4-6-13-16		_	vn SIL1, t	race	fine SAND, trace r	nf GRAVEL (m	oist,	19
0							very stiff)						
9													
10	ł												
10													
11													
12													
13													
	6	13.5	15.0	SS/18	3-2-2		Light Grey	SILT, tra	ce fir	ne SAND (moist, n	nedium stiff)		4
14													
15													
16													
17													
10													
18	7	10 5	20.0	00/7	4 11 12		Dorl- C	vv.a.c.41.	מת ג	CV fra 1'11	• CII T (A)		24
10	7	18.5	20.0	SS/7	4-11-13	Dark Grey weathered ROCK fragments, little SILT (wet)					24		
19													
20	1						Continued	on Doco ?	,				

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-164

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522							TEST BURING I			062B-03-1223
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION (OF MATERIAL	
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20				_			Continued from Page 1			
21										
22										
23	8	23.5	24.3	SS/7	18-100@3"		Dark Grey weathered RO	CK fragments. litt	le SILT (moist)	100+
24					10 100 00		Bottom of Boring @ 24.3'		()	
25	1						<i>3</i>			
26										
27										
28										
29										
30										
31										
32										
33										
34										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	st				ORATION	Boring No. Page No.		206 of 2
	Asso	ciate	s, Inc.	Phone:	315-701-0522		IESI	BORI	NG.	LUG	Report No.	28062E	3-03-1223
Project	Name:	Micror	Camp	us, Clay,	New York	4					Date Started	09/	14/23
Client:		Rambo	oll								Date Finished	09/	14/23
Location	n:	See Ex	ploratio	on Locati	on Plan						Surface Elev.	39	0.7'
		ME	THO	DS OF	INVESTIGATIO	N			GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		Brian S	Swartz		Casing:	4 ¼" ID	H.S.A.	D-4-		Т:	D 41- (E4.)	C	- A 4 (T4.)
Driller:		Jason I	Ersing		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:	Astitw	a Sharn	na, EIT	Other:			09/14/23		While Drilling	None Noted		
Drill Ri	g:	CME I	LC 55		Soil Sampler:	2" OD S	Split Barrel	09/14/23	Befo	ore Casing Removed	11.9	2	4.3
Type:		Track			Hammer Wt:	140 lbs.		09/14/23		er Casing Removed	6.9	(out
Rod Siz		NWJ			Hammer Fall:	30 in.		09/14/23		er Casing Removed	caved @ 8.6		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	OF MATERIA	L	
Depth		Sample	Depth	T. /	Blows on	D 4 6	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10°		RQD %
0	1	0.0	2.0	SS/10	WH-1-3-5		Brown mot	tled SILT	`, littl	e fine SAND, trace	ROOTS (moist	. ,	4
							medium sti	ff)					
1													
2	2	2.0	4.0	SS/19	5-5-5-4		Brown mo	tled SILT	`, littl	e CLAY, trace fine	e SAND (wet, st	iff)	10
3													
4	3	4.0	6.0	SS/15	1-1-3-4	Similar as above (wet, medium stiff)							4
5													
6	4	6.0	8.0	SS/18	4-3-5-7		Similar as	above (we	et, sti	ff)			8
_													
7													
0	_	0.0	10.0	00/21	2 2 2 10		D CII	т 1:41. С	T A 32	· (4 1'4'-C	Φ.		(
8	5	8.0	10.0	SS/21	2-3-3-10		Brown SIL	1, iittie C	LAY	(wet, medium stiff	1)		6
9													
9													
10													
10													
11													
11													
12													
13	6	13.0	15.0	SS/24	WH-WH-WH-2		Grey CLA	Y and SII	T (w	et, very soft)			0
]						, ,			
14													
15													
16													
17													
18	7	18.0	20.0	SS/17	10-11-10-13					ne GRAVEL, trace	e SILT, trace CL	ΔY	21
							(wet, medi	um compa	act)				
19													
20													

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-206

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522						LEST BURING	LUG	Report No.	28062B-03-12	223
	LOG OF BORING SAMPLES						VISUAL CLAS	SIFICATION (
Depth Scale (Feet)	Sample No.	Sample	e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT	Γ "N" or (D %
20							Continued from Page 1				
21 22 23	8	22.0	23.8	SS/16	63-65-72-100@4"		Grey ROCK chips and fra	gments, little SIL	Γ (wet)	1:	.37
24							Augan nafugal @ 24.21				
24							Auger refusal @ 24.3' Bottom of Boring @ 24.3'				
25	1										
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45	1										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Page		C	V	E		orporate Drive	SU	JBSURF	ACE EX	KPL	ORATION	Boring No.		06A
Project Name Micron Campus, Clay, New York Date Started 10.1123		Assi	ciate	s. Inc				TEST	BORI	NG :	LOG	Page No.		
Client Sec Speciment Speciment Sec Speciment S					1 mone.							_		
Depth Part Depth Depth		Name:			us, Clay,	New York								
METHODS OF INVESTIGATION GROUNDWATER OBSERVATIONS					<u> </u>									
Defiler	Location	1:)NI		1	CF				U. /'
Depth Dept	D211				DS OF			II C A		Gr	ROUNDWAIER	OBSERVAI	IONS	
Inspectors CMF ILC 55 Soil Sampler 2° OD Split Barrel 10/11/23 Before Casing Removed 10/11/23 After Casing Removed 10/11/23						-	3 %" ID	н.5.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Defil Rig: CME LC S Soil Sampler: 140 lbs. Indimmer Wit 140 lbs. Indim 1911 123 After Casing Removed cout c			J. WII	IKS		_			10/11/22		While Drilling			
Type: ATV	-		CMF I	C 55			2" OD S	Snlit Rarrel						
No. From To Per 6 Inches Per		•		20 33		-		-					0	nt
Dopth Sample Sample Sample System Sy		·•										caved @		
Depth Sample Sample Per Per Per Sample Sample Per Per Inches Sample Per Inches Per Inches	104 512			RORI	NG S			VI)		-
Sample CF-1	[LO	T		1100 51					12710		, while the		
No. From To Sec. (iii) Per 6 Inches (iii) From From To Sec. (iii) Per 6 Inches (iii) From Fro		C									and 25 to 50	0//22 20 to 250	1/	
0							_							
2		1101	110111	- 10	reer (iii)	Ter o menes	(11.)		11110		10 10 10	0,0, 4400		1142 /1
2														
3 4 5 6 7 8 9 10 11 12.0 14.0 SS/12 No Recovery See Remark I 11 14 2 14.0 16.0 U/23 Shelby Tube Sample	1													
3 4 5 6 7 8 9 10 11 12.0 14.0 SS/12 No Recovery See Remark I 11 14 2 14.0 16.0 U/23 Shelby Tube Sample														
10	2													
10														
S	3													
S														
6	4													
6														
7 8 9 10 11 12.0 14.0 SS/12 No Recovery See Remark 1 Shelby Tube Sample Shelby Tube Sample	5													
7 8 9 10 11 12.0 14.0 SS/12 No Recovery See Remark 1 Shelby Tube Sample Shelby Tube Sample														
8 9 10 11 12.0 14.0 SS/12 No Recovery See Remark I Shelby Tube Sample Shelby Tube Sample	6													
8 9 10 11 12.0 14.0 SS/12 No Recovery See Remark I Shelby Tube Sample Shelby Tube Sample	7													
9 10 11 12 1 12.0 14.0 SS/12 No Recovery See Remark I Shelby Tube Sample 15 16 17 18 18 18 19 19 19 19 19	/													
9 10 11 12 1 12.0 14.0 SS/12 No Recovery See Remark I Shelby Tube Sample 15 16 17 18 18 18 19 19 19 19 19	Q													
10 11 12 1 12.0 14.0 SS/12 13 14 2 14.0 16.0 U/23 Shelby Tube Sample	0													
10 11 12 1 12.0 14.0 SS/12 13 14 2 14.0 16.0 U/23 Shelby Tube Sample	9													
11														
11	10													
12														
12	11													
See Remark 1 Shelby Tube Sample Shelby Tube S														
See Remark 1 Shelby Tube Sample Shelby Tube S	12	1	12.0	14.0	SS/12			No Recove	ry					
14 2 14.0 16.0 U/23 Shelby Tube Sample 15 16 17 18 1														
15 16 17 18	13													
15 16 17 18														
16 17 18	14	2	14.0	16.0	U/23			Shelby Tul	be Sample	•				
16 17 18														
17 18	15													
17 18														
18	16													
18	1.7													
	1 /													
	10													
19	18													
	10													
	19													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod **Remarks:**1. No recovery with a 2" spoon; therefore a 3" spoon was utilized

	C Asso	Ciates	E, Inc.	East Syr	orporate Drive racuse, NY 13057 315-701-0522	SU	JBSURFA TEST		TPLORA		Boring No. Page No. Report No.	1	207 of 2 3-03-1223
Project 1				I momer t	New York						Date Started		13/23
Client:	Name.	Rambo		us, Ciay,	New Tork						Date Started Date Finished		13/23
Location	n•			n Location	on Dlan						Surface Elev.		39.9'
ocatioi					INVESTIGATIO)N			GROUN	DWATER	R OBSERVAT		9.9
Oriller:		Brian S			Casing:	4 ¼" ID	HSA	Ī	GROOM	DWAILI			-
Oriller:		Jason I			Casing Hammer:	174 110	11.5.71.	Date	Ti	ime	Depth (Ft.)	Casing	At (Ft.)
nspecto	r:		_		Other:			09/13/23	While	Drilling	13.0	1	8.0
Orill Rig		CME I			Soil Sampler:	2" OD S	Split Barrel	09/13/23		ing Removed	1.0		3.1
Гуре:	9	Track			Hammer Wt:	140 lbs.	-	09/13/23		ng Removed	7.7		out
Rod Size	e:	NWJ			Hammer Fall:	30 in.		09/13/23	After Casi	ng Removed	caved @ 20.0	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFI	CATION (OF MATERIA	L	
Double		Sample											SPT "N
Depth Scale	Sample			Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and = 35 to 50	0% / some - 20 to 35°	2/6	or or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/17	WH-WH-2-3				, little CLA		e SAND, trace R		2
							(wet, soft)		,	Ź	,		
1													
2	2	2.0	4.0	SS/24	5-5-5-6		Brown mot	tled SILT	, trace CLA	Y, trace cn	nf SAND, trace f	fine	10
							GRAVEL	(moist, sti	ff)				
3													
4	3	4.0	6.0	SS/23	1-1-3-3		Brown mot	tled SILT	, little CLA	Y, trace fine	e SAND (moist,	medium	4
							stiff)						
5													
6	4	6.0	8.0	SS/14	5-8-7-8		Similar as		et, stiff)				15
							PP = 1, 0.73	5,0.75					
7													
	_												
8	5	8.0	10.0	SS/10	1-4-4-5			T, little C	LAY, trace	fine SAND	, trace fine GRA	VEL	8
							(wet, stiff)						
9													
10													
10													
1.1													
11													
12													
14													
13	6	13.0	15.0	SS/9	1-1-2-3		Grev SILT	. little CI	AY, trace o	mf SAND t	race fine GRAV	EL	3
		-2.0	-2.0	_ 2. /			(wet, soft)	, 01	,	,	II IIII SIUIY		
14							, 5010)						
·													
15													
16													
17													
18	7	18.0	20.0	SS/6	27-69-14-3		Grey CLA	Y and SIL	T, some cn	nf SAND, so	ome mf GRAVE	L (wet,	83
							hard)						
19													
							Continued	on Page 2					
20	11. 6		т 11	1 1-	ıbe, C - Core, WH -	*** * *	CII	D 1		CD 1			

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-207

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone:	315-701-0522		TEST BURING I	LUG	Report No.	28062B-03-1223	
					AMPLES	VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample	Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50 little - 10 to 2	SPT "N		
20 21 22							Continued from Page 1				
23 24	8	23.0	23.1	SS/1	100@1"		Grey ROCK chips and fra Auger refusal @ 23.1' Bottom of Boring @ 23.1'		100+		
25 26											
27											
28 29											
30											
31											
33											
34											
36											
37 38											
39											
40											
41 42											
43											
44											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SU	JBSURFA	ACE EX	(PL	ORATION	Boring No.		209
	Acc	ciates	Inc		racuse, NY 13057		TEST	BORI	NG :	LOG	Page No.		of 1
			No.	i none.	315-701-0522	<u> </u>					Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		13/23
Client:		Rambo									Date Finished		13/23
Location	n:			n Locati			1		<u> </u>	O LINE DATE A TENT	Surface Elev.		1.0'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	TONS	
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		Jason I	_	EIT	Casing Hammer:			00/12/02		Ma 1 D 111	- ' '	_	
Inspecto				na, EIT	Other:	2" OD 0	1 1'. D 1	09/13/23		While Drilling	None Noted		7.1
Drill Ri	g:	CME I	LC 55		Soil Sampler:		Split Barrel	09/13/23		ore Casing Removed	None Noted		7.1
Type:		Track			Hammer Wt:	140 lbs.		09/13/23		er Casing Removed	None Noted		out
Rod Siz		NWJ	DOD	ING C	Hammer Fall:	30 in.	X71	09/13/23		er Casing Removed	caved @ 12.5		out
	LO	G OF	BOK	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		_	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/19	WH-2-3-5				CLAY	, trace fine SAND	, trace ROOTS ((moist,	5
							medium sti	111)					
1													
		•	4.0	aa.u.=			D 677		0.0		<i>a</i> an .		
2	2	2.0	4.0	SS/15	4-3-3-3				mt S.	AND, trace CLAY	, trace fine GRA	VEL	6
							(wet, medi	um stiff)					
3													
4	3	4.0	6.0	SS/14	2-2-6-12			n mottled	SIL	Γ, some cmf SAND	o, little mf GRA	VEL	8
							(wet, stiff)						
5													
							_						
6	4	6.0	8.0	SS/9	11-22-27-23				ND a	and mf GRAVEL,	some SILT, little	e CLAY	49
_							(wet, comp	act)					
7													
_							_					_	
8	5	8.0	10.0	SS/10	16-20-21-22			n cmf GF	RAVE	EL, some cmf SAN	D, little SILT (n	noist,	41
_							compact)						
9													
10													
11													
12													
		12.0	4.5.0	GG /4.0	20.20.21.61					on every that over	. m. 11. 1 . ex . xx		0.0
13	6	13.0	15.0	SS/13	39-29-51-61				ı mf (GRAVEL, little SI	LT, little CLAY	(wet,	80
							very compa	act)					
14													
1.5													
15													
1.0													
16													
1.5	_	15.0	17.	00.11	10001"		G 50-	rz 1 '	1.0				100:
17	7	17.0	17.1	SS/1	100@1"		Grey ROC	K chips a	nd fra	agments			100+
10							Bottom of	Boring @	17.1	'			
18													
10													
19													
20													

		R/		6035 Co	orporate Drive	SI	IRSURF	ACE EX	PI.	ORATION	Boring No.	B-	212
		IV	Ę	East Sy	racuse, NY 13057			BORII			Page No.	1	of 2
	Asso	ociates	s, Inc.	Phone:	315-701-0522		1651	DUKI	161	LUG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York	-5					Date Started		13/23
Client:		Rambo									Date Finished		13/23
Locatio	n:			on Locati		3.7	1		- CF		Surface Elev.		86.8'
D 111				DS OF	INVESTIGATIO		II C A		GR	COUNDWATER	OBSERVAT	IONS	
Driller: Driller:		Brian S Jason I			Casing: Casing Hammer:	4 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspect	r:		_	na, EIT	Other:			09/13/23		While Drilling	17.5	2	3.0
Drill Ri		CME I		iu, LII	Soil Sampler:	2" OD S	Split Barrel	09/13/23		ore Casing Removed	12.8		25
Type:	9	Track			Hammer Wt:	140 lbs.	-	09/13/23		er Casing Removed	8.5	(out
Rod Siz		NWJ			Hammer Fall:	30 in.		09/13/23	Afte	er Casing Removed	caved @ 23.3	(out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 35°	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/18	WH-1-2-3			T, little C	LAY	, trace fine SAND,	trace ROOTS (wet,	3
							soft)						
1													
2	2	2.0	4.0	SS/24	2-3-3-4		Brown mot	ttled SII T	little	e CLAY, trace fine	SAND (wet m	edium	6
2	2	2.0	7.0	55/24	2-3-3-4		stiff)	illed SIL1	, 11111	e CLAT, trace fine	SAND (wei, iii	cululli	0
3							Still)						
4	3	4.0	6.0	SS/20	WH-1-1-3		Brown SIL	T, some C	CLAY	, trace cmf SAND	(wet, soft)		2
						Brown SILT, some CLAY, trace cmf SAND (wet, soft)							
5													
_							_						
6	4	6.0	8.0	SS/15	4-5-6-6		Brown mot	ttled SILT	, little	e CLAY (wet, stiff)		11
7													
/													
8	5	8.0	10.0	SS/17	1-2-3-4		Brown mot	ttled SILT	and	CLAY (wet, mediu	ım stiff)		5
Ü		0.0	10.0	22,1,	120.		Brown mo)		
9													
10													
11													
12													
12													
13	6	13.0	15.0	SS/11	1-2-2-3		Grev CLA	Y and SII	T (w	et, medium stiff)			4
1.5		13.0	15.0	~~, 11	1 2 2 3				- ("	,			. I
14													
15													
16													
17													
17													
18	7	18.0	20.0	SS/12	1-2-3-5		Similar as	above (we	t. me	edium stiff)			5
10	,	10.0	20.0	55/12	1 2-3-3		Sillina as	(WC	٠, ١١١٠	widin buil)			
19													
20	1	I	1	I		1	Continued	on Dogo 2					

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-212

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociates	s, Inc.	Phone:	315-701-0522		TEST BORING L	OG .	Report No. 2	8062B-03-1223			
					AMPLES		VISUAL CLASS	IFICATION C	N OF MATERIAL SPT "N				
Depth Scale (Feet)	Sample No.	Sample	Depth Tt.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)							
20	NO.	FIOIII	10	Rec. (III.)	Fer o menes	(Ft.)	Continued from Page 1	ntile - 10 to 2	10767 trace - 0 to 1076	RQD %			
21							e e e e e e e e e e e e e e e e e e e						
22							 						
23	8	23.0	24.6		19-11-51-100@1"		Dark Grey weathered ROC SAND, trace mf GRAVEL		e SILT, little cmf	62			
24													
25							Auger refusal @ 25.0' Bottom of Boring @ 25.0'						
26													
27													
28													
29													
30	1												
31													
32													
33													
34													
35	1												
36													
37													
38													
39													
40	1												
41													
42													
43													
44													
45	-												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SU	J BSURF	ACE EX	(PL	ORATION	Boring No.		213
		V			racuse, NY 13057			BORI			Page No.		of 2
		ciates	20 1100	i none.	315-701-0522		1131	DOM	···	LUU	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		04/23
Client:		Rambo									Date Finished		04/23
Location	n:			n Locati			-			0.5.0.5	Surface Elev.		7.3'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		A. Lins		1	Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		D. Mac	_		Casing Hammer:			10/04/23					
Inspecto Drill Ri		CME 5		na, EIT	Other: Soil Sampler:	2" OD 9	Split Barrel	10/04/23		While Drilling ore Casing Removed	15.8 23.4		8.5 4.4
Type:	g.	Track	13		Hammer Wt:	140 lbs.	-	10/04/23		er Casing Removed	None Noted		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		10/04/23		er Casing Removed	caved @ 9.0		out
100 512			BORI	NG S	AMPLES	50 m.	VI			SSIFICATION C)		
	LO		Depth	110 0/		+			-1/30		/ WILLEWIA		ana
Depth	Sample	Sample (F	_	Type /	Blows on Sampler	Depth of		coarse		and 25 to 50	10/ / 20mm 20 to 250	·/	SPT "N"
Scale (Feet)	No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35% 20% / trace - 0 to 10%		or RQD %
0	1	0.0	2.0	SS/16		(1 1.)			race 1	fine SAND, trace R			9
] , 210,	, 0			_ (====================================	,	
1													
2	2	2.0	4.0	SS/15	4-6-5-5		Brown SIL	T, trace fi	ine S	AND, trace CLAY	(wet, stiff)		11
3													
4	3	4.0	6.0	SS/24	4-3-3-3	Similar as above (wet, medium stiff)							
5													
_	4	6.0	0.0	00/22	4244		D 277	Tr 4 ~	. ~	AND (' "	1.00		
6	4	6.0	8.0	SS/22	4-3-4-4		Brown SIL	1, trace f	ine S	AND (wet, mediun	n stiff)		7
7													
7													
8	5	8.0	10.0	SS/19	3-4-4-6		Brown CII	T trace	of S A	AND (wet, stiff)			8
0	ر	0.0	10.0	55/19	3-4-4-0		DIOMII SIL	i, uace II	ш эА	MID (WEI, SIIII)			0
9													
)													
10													
11													
12													
13													
13	6	13.5	15.0	SS/16	2-2-3		Grev CLA	Y and SII	Τ(w	vet, medium stiff)			5
14		13.3	15.0	55/10	2-2-3		Sicy CLA	I unu DIL		o, modium sum)			
• •													
15													
16							Augered gr	ravelly be	tweei	n 16' to 17'			
17													
18													
	7	18.5	20.0	SS/5	5-3-4		-	SAND, so	me S	ILT, some mf GRA	AVEL, trace CLA	AY (wet,	, 7
19							loose)						
20							Continued	am D 2	,				

Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-213** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or No. From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.5 24.3 SS/6 23-100@4" Grey cmf SAND, some SILT, some mf GRAVEL (wet, very 100 +24 compact). Auger refusal @ 24.4' Bottom of Boring @ 24.4' 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SI	J BSURF	ACE EX	EPL(ORATION	Boring No.		216
					racuse, NY 13057			BORI			Page No.		of 2
		ociate	S. Land	i none.	315-701-0522		11251	DOM	.10	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		12/23
Client:		Rambo									Date Finished		12/23
Locatio	n:			on Locati		N.T			CI	OLINDAY A TEE	Surface Elev.		35.8'
Driller:		Brian S		DS OF	INVESTIGATIO	4 ¼" ID	TI C A		GN	ROUNDWATER	OBSERVAI	IONS	
Driller:		Jason l			Casing: Casing Hammer:	4 % ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			_	na, EIT	Other:			09/07/23		While Drilling	None Noted		5.0
Drill Ri		CME I		ти, Етт	Soil Sampler:	2" OD S	Split Barrel	09/07/23		ore Casing Removed	12.0		0.8
Туре:	•	Track			Hammer Wt:	140 lbs.	-	09/07/23		er Casing Removed	6.8	(out
Rod Siz	æ:	NWJ			Hammer Fall:	30 in.		09/07/23	Aft	er Casing Removed	caved @ 17.0	(out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth		Sample	e Depth	T /	Blows on	D 4 6	c -	coarse					SPT "N"
Scale	Sample	(F	_	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°		RQD %
0	1	0.0	2.0	SS/19	WH-1-2-3		Brown mot	ttled SILT	`, littl	e mf SAND, trace	ROOTS (moist,	soft)	3
1													
		2.0	4.0	GG/22	(1 5 5		D CII	т 1:41. С	T A 3.7	C Anna Cara CANID	(0
2	2	2.0	4.0	SS/22	6-4-5-5		Brown SIL	, i, iittie C	LAY	, trace fine SAND	(wet, still)		9
3													
3													
4	3	4.0	6.0	SS/20	1-2-3-4		Brown SII	T little C	LAY	, trace fine SAND	(wet_medium_st	tiff)	5
		1.0	0.0	55/20	1231		Brown Sil	i, nuic c	L111	, trace time 57 ii vib	(wet, integrani s)	
5	1												
6	4	6.0	8.0	SS/14	3-4-4-6		Brown mot	ttled SILT	, trac	ce CLAY, trace fin	e SAND (wet, st	iff)	8
7													
8	5	8.0	10.0	SS/16	2-4-5-4			ttled SILT	', trac	e fine SAND, trac	e mf GRAVEL ((wet,	9
0							stiff)						
9													
10													
10													
11													
' '													
12													
13	6	13.0	15.0	SS/21	WH-1-1-1		Grey CLA	Y and SIL	T (w	vet, soft)			2
14													
15													
17													
16													
17													
1/													
18	7	18.0	20.0	SS/8	5-4-17-11		Grev cmf S	SAND and	l mf (GRAVEL, trace SI	LT, trace CLAY	(wet.	21
	'						medium co			, , , , , , , , , , , , , , , , , , ,	,		
19								. ,					
]												
20	I	Ī		I	I	1	Continued	on Dogo 2	,				Ī

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-216

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES						TEST BURING I	LUG	Report No.	28062B-03-1223
							VISUAL CLAS	SIFICATION C		
Depth			Depth		Blows on	Depth of	c - coarse			SPT "N"
Scale	Sample			Type / Sample	Sampler	Depth of Change	m - medium		0% / some - 20 to 35%	% or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f - fine		20% / trace - 0 to 10%	RQD %
20	0	20.0	21.0	00/0	100 0 211		Continued from Page 1 A			100
21	8	20.8	21.0	SS/3	100@3"		Grey ROCK chips and fra trace fine GRAVEL (wet)		I, trace cmf SAN	VD, 100+
21							Bottom of Boring @ 21.0'			
22							Bottom of Boring to 21.0			
23										
24										
24										
25										
26										
27										
27										
28										
29										
30										
31										
32										
32										
33										
34										
35										
36										
37										
38										
39										
40										
40										
41										
42										
43										
73										
44										
45		I		Ī		I	I			ľ

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 C	orporate Drive	SI	JBSURFA	ACE EX	PL	ORATION	Boring No.	B-	217
		IV			racuse, NY 13057			BORI			Page No.		of 2
		ciates	No.	i none.	315-701-0522		11201	DOM	. 10	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	, New York						Date Started)4/23
Client:		Rambo									Date Finished)4/23
Location	n:			n Locati			1		~-		Surface Elev.		7.8'
				DS OF	INVESTIGATIO				Gł	ROUNDWATER	OBSERVAT	IONS	
Driller:		A. Lins			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		D. Mac	_	ı na, EIT	Casing Hammer: Other:	NQ-Cor		10/04/23		While Drilling	11.3		8.5
Inspecto Drill Rig		CME 5		na, EH	Soil Sampler:	-	e Split Barrel	10/04/23	Dof	While Drilling ore Casing Removed	8.7		1.9
Type:	5 •	Track	,5		Hammer Wt:	140 lbs.	-	10/04/23		ter Casing Removed	8.0		out
Rod Size	e:	AWJ			Hammer Fall:	30 in.		10/04/23		ter Casing Removed	caved @ 12.0		out
Ttou SIZ			RORI	NG S	AMPLES	J 0 III.	VI			SSIFICATION C)		, (1)
	LO			110 52							T WITTERIT		
Depth	Sample	Sample (F	Depth	Type /	Blows on	Depth of		coarse		and 25 to 50	0/ / 22 25 20 to 250	1/	SPT "N"
Scale (Feet)	No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 359 0% / trace - 0 to 109		or RQD %
0	1A	0.0	0.6	SS/16		(1 (.)			Mat	ter (moist, medium		•	5
	1B	0.6	2.0							ce fine SAND, trace		t,	
1							medium sti	ff)			`		
								ŕ					
2	2	2.0	4.0	SS/19	3-4-5-4		Brown mot	tled SILT	, littl	le CLAY, trace fine	e SAND (wet, sti	iff)	9
3													
	_												
4	3	4.0	6.0	SS/24	1-2-3-3			tled SILT	', trac	ce CLAY, trace fine	e SAND (wet, m	edium	5
_							stiff)						
5													
6	4	6.0	8.0	SS/24	4-5-4-6		Duorry an of	411 CII T	. +	as fins CAND (west	at:ff		9
6	4	0.0	8.0	33/24	4-3-4-0		Brown mor	mea SIL I	, trac	ce fine SAND (wet,	, suii)		9
7													
,													
8	5	8.0	10.0	SS/24	2-3-5-6		Brown SIL	T. some C	CLA	Y, trace fine SAND	(wet, stiff)		8
		0.0						-,		-,	(,)		
9													
10													
11													
12													
12													
13	<i>c</i>	12.5	15.0	SS/18	222		Grazz CT A	V on J OIT	т /-	rot modium -tico			4
14	6	13.5	15.0	35/18	2-2-2		Grey CLA	r and SIL	1 (M	vet, medium stiff)			4
14													
15													
13													
16													
17													
18													
	7	18.5	20.0	SS/18	7-13-10				some	e CLAY, trace cmf	SAND, trace SII	LT (wet,	23
19							medium co	mpact)					
20							Continued	am D- 2					

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-217

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Asso	ociates	s, Inc.	Phone:	315-701-0522		LEST BURING I	LUG	Report No.	28062B-03	3-1223		
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION (FICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.		e Depth	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change	c - coarse m - medium f - fine	and - 35 to 50	⁄o	SPT "N" or RQD %			
20	No.	FIOIII	10	Rec. (in.)	Per 6 inches	(Ft.)	Continued from Page 1	nuie - 10 to 2	20% / trace - 0 to 10%	0 R	KQD %		
21 22 23	8 R1	21.9 21.9	21.9 26.9	SS/0 C/59	100@0" NQ-Core		Auger refusal @ 21.9' No Recovery Dark Grey/Black DOLOS throughout (<1/8" to 1/2" to thinly bedded.			ers	100+ 37%		
24 25 26 27 28 29 30 31	R2	26.9	31.9	C/60	NQ-Core		Broken zones @ 21.9' to 22.8', 24.5' to 25.1' and 26.1' to 26.9'. Recovery: 59"/60" = 98% RQD: 22"/60" = 37% 12 Pieces, 10" Chips and Fragments 3 min/ft, water loss - no return water Coring conducted in 5th gear, 2100 rpm, 600 psi down pressure. 26.9' to 29.4'; Dark Grey/Black SHALE, slightly weathered, laminated to thinly bedded, medium hard. Recovery: 60"/60" = 100% RQD: 30"/60" = 50% 3 min/ft, water loss - no return water Coring conducted in 5th gear, 2100 rpm, 650 psi down pressure. 29.4' to 31.9'; Dark Grey/Black DOLOSTONE with interbedded SHALE layers (<1/8' to 1 1/2" thick). Slightly weathered, thinly bedded, hard. Vertical break from 30.4' to 31.9'.						
32							Bottom of Boring @ 31.9'						
33													
34													
35													
36 37													
38													
39													
40													
41 42													
43													
44													
45													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 Co	orporate Drive	SI	IRSURF	ACE EX	XPLORATION	Boring No.	B-21	8
		IV			racuse, NY 13057				NG LOG	Page No.	1 of 2	2
	Asso	ciates	s, Inc.	Phone:	315-701-0522		ILSI	BUKI	NG LUG	Report No.	28062B-03	-1223
Project	Name:	Micron	Campi	us, Clay,	New York					Date Started	09/12/2	23
Client:		Rambo	11	-						Date Finished	09/12/2	23
Location	1:	See Ex	ploratio	n Locati	on Plan					Surface Elev.	386.4	'
					INVESTIGATIO	N			GROUNDWATER			
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.	_				
Driller:		Jason E	Ersing		Casing Hammer:			Date	Time	Depth (Ft.)	Casing At	(Ft.)
Inspecto	r:		_	na, EIT	Other:			09/12/23	While Drilling	None Noted	6.0	
Drill Ri		CME I			Soil Sampler:	2" OD S	Split Barrel	09/12/23	Before Casing Removed	8.0	25.5	
Туре:	,	Track			Hammer Wt:	140 lbs.	-	09/12/23	After Casing Removed	7.0	out	
Rod Size	e:	NWJ			Hammer Fall:	30 in.		09/12/23	After Casing Removed	caved @ 16.0	out	
			BOR	ING S	AMPLES		VIS		LASSIFICATION (_	L	
	LO		Depth	1100)		
Depth	C 1 -	Sample (F	_	Type /	Blows on	Depth of		coarse medium	1 25 + 50	00/ / 20 to 250		PT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		- fine		0% / some - 20 to 35% 20% / trace - 0 to 10%		or QD %
0	1	0.0	2.0	SS/24		(11.)			LAY, trace mf SAND,			4
U	1	0.0	2.0	55/24	W11-1-3-3		medium sti		Entr, trace in Shirt,	uace Roots (iii	.0151,	7
1							incaram sa	11)				
1												
2	2	2.0	4.0	SS/24	1-5-6-7		Brown mot	tled SII T	and CLAY, trace fine	SAND (wet stiff	,	11
2	2	2.0	7.0	55/24	1-3-0-7		Diown mor	illed DIL I	and CE/11, trace fine	Shirib (wet, still	'	**
3												
3												
4	3	4.0	6.0	SS/21	1-2-2-2		Similar oc	obovo (sve	et, medium stiff)			4
4	3	4.0	0.0	33/21	1-2-2-2		Sillillai as	above (we	et, medium sum)			4
5												
3												
6	4	6.0	8.0	SS/17	4-4-4-3		Dearyn CII	т 1;441 с.С	LAY, trace cmf SAND	(wat stiff)		8
O	4	0.0	8.0	33/1/	4-4-4-3		DIOWII SIL	i, nuie C	LAI, HACE CHII SAND	(wei, siiii)		0
7												
,												
8	5	8.0	10.0	SS/15	2-3-4-5		Dearyn CII	т 1;441 с б	ne SAND (wet, mediun	a stiff)		7
0	3	8.0	10.0	33/13	2-3-4-3		DIOWII SIL	i, mme m	ile SAND (wet, illediuli	1 81111)		/
9												
9												
10												
10												
11												
11												
12												
12												
13	6	13.0	15.0	SS/14	1-1-1-1		Grey CLA	V and CII	T, trace fine SAND (we	et soft)		2
13	U	13.0	13.0	JJJ/14	1-1-1-1		GICY CLA	ı anu sil	LI, HACCIHIC SAIND (W	ci, 501i)		۷
14												- 1
14												
1.5												- 1
15												
1.0												
16												
1.7												
17												
1.0	7	10.0	20.0	0016	5557		Cmarrie CC	AND	CDANET 1'21	OII T 4 OI 4	V (*	10
18	7	18.0	20.0	SS/6	5-5-5-6				me mf GRAVEL, little	SIL1, trace CLA	ı (wet,	10
10							medium co	. /				
19							See Remar	κ 1				
							l					

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks:

1. Sampling not feasible between 23.0' and 25.0' due to blowing sand conditions.

CME
Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-218

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

				315-701-0522		TEST DOMING I		Report No.	28062B-03-1223
				AMPLES		VISUAL CLASS	SIFICATION (L
Depth Scale (Feet)	Sample No.	Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	
20						Continued from Page 1			
21									
22									
23									
24						Auger refusal @ 25.5'			
25						Auger refusal @ 25.5' Bottom of Boring at 25.5'			
26									
27									
28									
29									
30									
31									
32									
33 34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45	1								

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION	Boring No. Page No.		• 224 of 2
	Asso	ociate	s, Inc.	Phone:	315-701-0522		IESI	BUKI	NG	LUG	Report No.	28062E	3-03-1223
Project	Name:	Micror	Camp	us, Clay,	, New York						Date Started	10/	03/23
Client:		Rambo	oll								Date Finished	10/	03/23
Locatio	n:	See Ex	ploratio	on Locati	ion Plan						Surface Elev.	38	39.5'
		ME	THO	DS OF	INVESTIGATIO	N			GF	ROUNDWATER	OBSERVAT	TONS	
Driller:		A. Lin	struth		Casing:	3 ¼" ID	H.S.A.	D-4-		Т:	D4h (E4)	C	- A 4 (T4.)
Driller:		D. Ma	cDouga	1	Casing Hammer:			Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspect	or:	Astitw	a Sharn	na, EIT	Other:			10/03/23		While Drilling	12.5	1	3.5
Drill Ri	g:	CME 5	55		Soil Sampler:	2" OD S	Split Barrel	10/03/23	Befo	ore Casing Removed	8.1	2	2.9
Туре:		Track			Hammer Wt:	140 lbs.		10/03/23	Aft	er Casing Removed	6.3	(out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		10/03/23	Aft	er Casing Removed	caved @ 7.9	(out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		Sample	Depth		Blows on			coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	*	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1A	0.0	0.5	SS/16			Topsoil and	d Organic	Mat	ter, trace Roots (mo	oist)		7
	1B	0.5	2.0							e fine SAND (moi			
1										`	,		
2	2	2.0	4.0	SS/21	4-5-6-6		Similar as	above (mo	oist, s	stiff)			11
								`		,			
3													
4	3	4.0	6.0	SS/17	7-4-4-4		Brown mot	tled SILT	`, littl	e mf GRAVEL, tra	ice cmf SAND (wet,	8
							stiff)		,	,	`	,	
5							,						
-													
6	4	6.0	8.0	S/11	2-4-5-6		Brown mot	tled SILT	, son	ne cmf SAND, little	e mf GRAVEL ((wet,	9
							stiff)						
7													
8	5	8.0	10.0	SS/17	3-14-23-14		Brown mot	tled SILT	and	cmf SAND, little r	nf GRAVEL (m	oist,	37
							hard)				`		
9													
10													
11													
12													
13													
	6A	13.5	14.5	SS/18	10-17-18		Brown mo	tled SILT	and	cmf SAND, little r	nf GRAVEL (m	oist,	35
14							hard)						
	6B	14.5	15.0				Grey SILT	and cmf	SAN	D, little fine GRAV	/EL (moist, hard	d)	
15													
16													
17													
18													
	7	18.5	20.0	SS/18	34-40-47		Similar as	above (mo	oist, l	nard)			87
19						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
20	Ī	1		1	Ī	1	I	D 0					1

Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-224** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 Auger refusal @ 22.9 8 22.9 100+ 22.9 SS/0 100@0" No Recovery 23 Bottom of Boring @ 22.9' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 Co	orporate Drive	CI	IRSHDE	ACE EX		ORATION	Boring No.	B-	242
		IV			racuse, NY 13057						Page No.	1	of 2
	Asso	ciates	s, Inc.	Phone:	315-701-0522		IESI	BORI	10	LUG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		15/23
Client:		Rambo									Date Finished		15/23
Location	n:			n Locati				1			Surface Elev.		92.7'
T				DS OF	INVESTIGATIO		*** 0 :		GR	COUNDWATER	OBSERVAT	IONS	
Driller:		G Ric			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto		C. O'H	ara		Casing Hammer: Other:	NQ-Cor	0	11/15/23		While Drilling	4.7		9.0
Drill Ri		CME 5	55		Soil Sampler:		plit Barrel	11/15/23		ore Casing Removed	8.0		4.7
Type:	ь•	ATV	,5		Hammer Wt:	140 lbs.	-	11/15/23		er Casing Removed	4.5		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @ 7.2		out
		G OF	BOR	ING SA	AMPLES		VIS			SIFICATION C	_	L	
Donell			e Depth		Blows on								SPT "N"
Depth Scale	Sample	(F	_	Type / Sample	Sampler	Depth of Change		coarse medium		and - 35 to 50	% / some - 20 to 35°	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	0% / trace - 0 to 10%	%	RQD %
0	1	0.0	2.0	SS/14	WH-1-2-4			•	ittle (CLAY, trace mf SA	ND, trace ROO	TS	3
							(moist, soft	t)					
1													
_	_	2.0	4.0	00/10	4242		D /C	ou m 1	1 -	NT A \$7 / 1 / 1			_
2	2	2.0	4.0	SS/18	4-3-4-3		Brown/Gre	ey SILT, I	ittle (CLAY (moist, medi	ium stiff)		7
3													
ا ع													
4	3	4.0	6.0	SS/15	3-3-4-4		Brown SII	T trace ((wet_medium stif	ነ		7	
'			0.0	55/13	3 3 1-4	Brown SILT, trace CLAY (wet, mediun					-)		,
5													
6	4	6.0	8.0	SS/13	3-4-4-7		Similar as	above (we	et, sti	ff)			8
7													
0	_	0.0	10.0	00/14	2 2 5 5		G::1	-1 (20			0
8	5	8.0	10.0	SS/14	3-3-5-5		Similar as	above (we	et, sti	11)			8
9													
]													
10													
11													
12													
12													
13													
14	6	14.0	16.0	SS/10	4-7-5-3		Brown/Gro	N SII T 1	ittla (CLAY, little cmf SA	AND trace fine		12
14	U	14.0	10.0	33/10	4-7-3-3		GRAVEL	•		LAI, IIIIE CIII SA	and, have line		12
15							OIG I V LL	(,, , , , , , , , , , , , , , , , , ,	,				
16													
17													
							 					. —]
18													
10	7	10.0	21.0	00/10	4027		Dorl- D		A T 7171	CAND CAND) two of CILT!	a.t	1.1
19	7	19.0	21.0	SS/10	4-8-3-7		Dark Brow medium co		AVEI	L, some cmf SAND	o, trace SILT (w	et,	11
20							Continued		,				

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-242

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		TEST BURING I		Report No.	28062B-0	03-1223
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION (OF MATERIA	L	
Depth Scale (Feet)	Sample No.		e Depth t.) To	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	ó	SPT "N" or RQD %
20							Continued from Page 1				
21											
22											
23											
24	8	24.7	24.9	SS/1	50@1"		Grey ROCK fragements				50+
25					O		Auger refusal @ 24.9' Bottom of Boring @ 24.9'				
26							Bottom of Bornig & 24.9				
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	F		orporate Drive	SU	JBSURFA	ACE EX	(PL	ORATION	Boring No.		245
	Acc	ociates	Inc	•	racuse, NY 13057		TEST	BORI	NG I	LOG	Page No.		of 2
			20 1100	i none.	315-701-0522		1201				Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		23/23
Client:		Rambo									Date Finished		23/23
Locatio	n:			n Locati							Surface Elev.		2.4'
					INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Casa	atellı		Casing Hammer:	NO 6		10/02/02		177 T 7 T 111			
Inspecto		CMT 6			Other:	NQ-Cor		10/23/23		While Drilling	23.0		3.5
Drill Ri	g:	CME 5	30X		Soil Sampler: Hammer Wt:	140 lbs.	Split Barrel	10/23/23		ore Casing Removed	23.0 None Noted		4.1
Type: Rod Siz		AWJ			Hammer Fall:	30 in.		10/23/23		er Casing Removed er Casing Removed			out
Kou Siz			D/OD!	INC C	AMPLES	30 III.	1/1/			SIFICATION C	caved @ 2.0'		out
	LU			ING SE	AMPLES	1	V 18	SUAL C	LAS	SIFICATION C	JF MIATERIA	L	
Depth		Sample		Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 359		or DOD 0/
(Feet)	No.	From 0.0	To 0.5	Rec. (in.) SS/16	Per 6 Inches 11-2-3-4	(Ft.)		- fine	Moto	erial (moist)	20% / trace - 0 to 10%	0	RQD %
U	1B	0.0	2.0	33/10	11-2-3-4	 				CLAY (moist, med	lium stiff)		3
1	110	0.5	2.0				Light Blow	'II SIL I, S	OHIC	CLAT (moist, met	mum sum)		
1													
2	2	2.0	4.0	SS/17	4-5-6-5		Light Brow	n SILT t	race (CLAY, trace fine S	SAND (moist_sti	iff)	11
_	_	2.0	1.0	00/1/	1000								
3													
4	3	4.0 6.0 SS/24 3-6-7-7 Light Brown SILT, trace fine SAND (m							fine SAND (moist,	stiff)		13	
								,		,	,		
5	1												
6	4	6.0	8.0	SS/19	5-7-6-6		Light Brow	n SILT, t	race 1	fine SAND (moist,	stiff)		13
7													
8	5	8.0	10.0	SS/20	4-4-5-7		Similar as	above (mo	oist, s	tiff)			9
9													
10	ŀ												
10													
11													
11													
12													
12													
13													
	6	13.5	15.0	SS/16	1-2-2		Light Grev	SILT. tra	ce fir	ne SAND (wet, me	dium stiff)		4
14							g	,		,			
15]												
16													
17													
18	_	10.5	20.0	00/10	2 6 0		G 377.77	1111 2	CP :	THE 1'41 C	ND (,
10	7	18.5	20.0	SS/10	3-6-9		Grey SILT, little mf GRAVEL, little fine SAND (wet, very stiff)					15	
19													
20	4			Ī		1		ъ о					

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-245

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociates	s, Inc.	Phone:	315-701-0522		TEST BURING I	LUG	Report No.	28062B-	03-1223
					AMPLES		VISUAL CLAS	SIFICATION (L	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%		SPT "N" or RQD %
20				` '			Continued from Page 1		·		`
21											
22											
23											
24	8	23.5	24.1	SS/6	14-100@1"		Grey SILT and weathered trace fine SAND (wet, har		s, little cmf GRA	VEL,	100+
25							Auger refusal @ 24.1' Bottom of Boring @ 24.1'				
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45						<u> </u>					

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	Œ	East Sy	orporate Drive racuse, NY 13057	st		ACE EX		ORATION	Boring No. Page No.		• 251 of 2
	Ass	ociate	s, Inc.	Phone:	315-701-0522		1 E S I	DUKI	NG	LUG	Report No.	28062H	3-03-1223
Project	Name:	Micron	n Camp	us, Clay,	New York	•					Date Started	10/	19/23
Client:		Rambo	oll								Date Finished	10/	19/23
Locatio	n:	See Ex	ploratio	on Locati	on Plan						Surface Elev.	39	92.5'
		ME	THO	DS OF	INVESTIGATIO	N			GI	ROUNDWATER	OBSERVAT	IONS	
Driller:		J. Win	ks		Casing:	3 ¼" ID	H.S.A.	D-4-		T:	Donaldo (E4.)	Ci	- A 4 (E4.)
Driller:		R. Cas	atelli		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspecto	or:				Other:			10/19/23		While Drilling	11.3	1	3.5
Drill Ri	g:	CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	10/19/23	Bef	ore Casing Removed	17.9		23
Type:		ATV			Hammer Wt:	140 lbs.		10/19/23	Aft	ter Casing Removed	10.0		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		10/19/23	Aft	ter Casing Removed	caved @ 13.3		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION (F MATERIA	L	
Donth		Sample	e Depth		Dlarra								SPT "N"
Depth Scale	Sample	_	t.)	Type /	Blows on Sampler	Depth of		- coarse medium		and - 35 to 50	0% / some - 20 to 35	0/2	or
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/14	2-3-5-8	()			ILT.	trace fine SAND, t			8
Ŭ	1	0.0		25,1.	2000		stiff)	.11. 010) 2	,		110 0 10 (11	10104,	
1							3411)						
•													
2	2	2.0	4.0	SS/19	7-8-11-12	Light Brown/Grey SILT, trace fine SAND (moist, very stiff)							19
_	_			25,19	, 0 11 12		Zigiii Zio i	.11. 010) 2	,				17
3													
3													
4	3	4.0	6.0	SS/16	5-4-3-3	Light Brown SILT, trace fine SAND (mo					medium stiff)		7
7		7.0	0.0	55/10	3-4-3-3		Light Diov	vii SiL1, t	nacc	Time Start (moist,	mediam sum)		,
5	ł												
3													
6	4	6.0	8.0	SS/20	2-3-4-4		Light Brow	ın SII T t	trace	fine SAND (moist,	medium stiff)		7
U	-	0.0	0.0	55/20	2-3-4-4		Light Diov	vii SiL1, t	nacc	Time Start (moist,	mediam sum)		,
7													
,													
8	5	8.0	10.0	SS/19	4-5-10-8		Similar as	ahove (mo	nist :	very stiff)			15
0	3	0.0	10.0	55/17	4-3-10-6		Sillillai as	above (iii	0131,	very stirry			13
9													
9													
10													
10													
11													
11													
12													
12													
13													
13	6	13.5	15.0	SS/15	4-3-3		Light Brow	ın SII T	trace	fine GRAVEL, tra	ce fine SAND (s	vet	6
14		13.3	15.0	00/13	7-5-5		medium st		ace	inic OKA v EL, tla	CO THIC BAIND (,, c.,	
14							incurum St	111)					
15	1												
13							Augovada	ravelly be	oinn	ing @ 15.0'			
16							Augereu gi	aveny ve	ginni	ing w 13.0			
10													
17													
17													
10													
18	7	10 5	20.0	QQ/1/	757		Grev SILT little mf GR AVEL little mf SAND (moist stiff)					12	
10	7	18.5 20.0 SS/14 7-5-7					Grey SILT, little mf GRAVEL, little mf SAND (moist, stiff					'	12
19													
20	l						G	D 2					

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-251

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociates	s, Inc.	Phone:	315-701-0522		LEST BURING L	JUG	Report No.	28062B-03-1223
					AMPLES		VISUAL CLASS	SIFICATION (
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	
20							Continued from Page 1			
21										
22										
23	8	23.0	23.0	SS/0	100@0"		Auger refusal @ 23.0' No Recovery Bottom of Boring @ 23.0'			100+
24							Bottom of Boring (# 23.0			
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION	Boring No. Page No.	1	260 of 2
		ociates		I mone.	315-701-0522		TEST	DOM	III	LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		19/23
Client:		Rambo									Date Finished		19/23
Locatio	n:		_	on Locati							Surface Elev.		2.6'
				DS OF	INVESTIGATIO				Gl	ROUNDWATER	R OBSERVAT	IONS	
Driller:		J. Win			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casino	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:								
Inspect					Other:			10/19/23		While Drilling	19.2		4.1
Drill Ri	g:	CME 5	550X		Soil Sampler:		Split Barrel	10/19/23		Fore Casing Removed	19.2	2	4.1
Type:		ATV			Hammer Wt:	140 lbs.		10/19/23	_	ter Casing Removed	12.2	(out
Rod Siz		AWJ			Hammer Fall:	30 in.		10/19/23		ter Casing Removed	caved @ 12.9		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C)F MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109	V ₀	RQD %
0	1A	0.0	0.5	SS/19	1-4-5-8	0.5	Topsoil an						9
	1B	0.5	2.0				Light Brow	/n/Light (Grey	SILT, trace CLAY,	trace fine SAN	D	
1							(moist, stif	f)					
2	2	2.0	4.0	SS/17	7-8-8-6	Light Brown/Light Grey SILT, trace CLAY, trace fine SAND							16
						(moist, very stiff)							
3													
4	3	4.0	6.0	SS/18	5-5-4-4		Light Brow	n/Light C	Grey	SILT, trace fine SA	ND, trace CLA	Y	9
							(moist, stif	f)					
5	1												
6	4	6.0	8.0	SS/19	4-4-4-4		Light Brow	n SILT, t	race	fine SAND (moist,	stiff)		8
						Eight Brown Sibit, trace time Start (moist, start)							
7													
8	5	8.0	10.0	SS/17	3-6-6-7		Light Brow	n SILT, t	race	fine SAND (moist,	stiff)		12
9													
10													
11													
12													
13													
	6	13.5	15.0	SS/19	2-3-3		Light Brow	n SILT, t	race	fine SAND (moist,	medium stiff)		6
14										, ,	,		
]												
15													
16													
17													
18													
	7	18.5	20.0	SS/12	WH-4-10		Light Grey	SILT, lit	tle cı	mf SAND, little wea	athered ROCK		14
19							fragments (wet, stiff)						
									,				
20	1	l		I		1	la	ъ с					1

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

Boring No. B-260
Page No. 2 of 2
Report No. 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		TEST DOMING	200	Report No.	28062B-03-12	
					AMPLES		VISUAL CLAS	SIFICATION (OF MATERIA	L	
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%		
20 21							Continued from Page 1				
2223										vet) 10	
24	8	23.5	24.1	SS/6	6-100@1"		Dark Grey highly weather Auger refusal @ 24.1' Bottom of Boring @ 24.1'	red ROCK fragments, little SILT (wet)			
2526											
27											
28 29											
30											
31											
32											
3334											
35											
36											
37											
38 39											
40	-										
41											
42 43											
43											
45	_										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6025.6							Daving No.	D	263
			Œ		orporate Drive racuse, NY 13057	SU	J BSURF	ACE EX	KPL	ORATION	Boring No. Page No.		of 2
	Ass	ociate	s. Inc.		315-701-0522		TEST	BORI	NG I	LOG	Report No.		3-03-1223
Project			S. Land	i none.	New York						Date Started		18/23
Client:	ivaille.	Rambo		us, Ciay,	New Tork						Date Started Date Finished		18/23
Location	n:			on Locati	on Plan						Surface Elev.		2.2'
Locution					INVESTIGATIO	N			GR	ROUNDWATER			2.2
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	D /					A ((T) ()
Driller:		R. Cas	atelli		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto					Other:			10/18/23		While Drilling	None Noted		4.8
Drill Ri	g:	CME 5	550X		Soil Sampler:		Split Barrel	10/18/23		ore Casing Removed	10.6	2	4.8
Type:		ATV			Hammer Wt:	140 lbs.		10/18/23		er Casing Removed	12.2		out
Rod Siz		AWJ	DOD	ING C	Hammer Fall:	30 in.	X71	10/18/23		er Casing Removed	caved @ 17.0		out
	LO	1		ING SA	AMPLES		V 13	SUAL C	LAS	SSIFICATION C	JF MIATERIA	L	1
Depth			e Depth	Type /	Blows on	Depth of		coarse				.,	SPT "N"
Scale (Feet)	Sample No.	From	t.) To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 359 0% / trace - 0 to 109		or RQD %
0	1	0.0	2.0	SS/16	1-2-7-7	(Ft.)			race	fine SAND, trace F			9 g
	1	0.0		22,10			Light Die	5121,		21 11 (2), 41400 1	10 0 12 (110154)	,,,,,	
1													
2	2	2.0	4.0	SS/18	6-6-6-6		Light Brow	n SILT, t	race	fine SAND (moist,	stiff)		12
3													
1	2	4.0	6.0	SS/17	2 4 5 5	Similar as above (moist, stiff)							0
4	3	4.0	6.0	55/1/	3-4-5-5	Similar as above (moist, stiff)							9
5													
3													
6	4	6.0	8.0	SS/16	5-4-3-4		Similar as	above (me	oist, r	nedium stiff)			7
								`		,			
7													
8	5	8.0	10.0	SS/19	1-2-2-4		Similar as	above (m	oist, r	nedium stiff)			4
0													
9													
10	1												
10													
11													
12													
13													
14	6	14.0	16.0	SS/12	7-9-12-9		Light Duce	m/Licht C	Inor C	SILT, little cmf GR	AVEL trace for	10	21
14	0	14.0	10.0	55/12	7-9-12-9		SAND (mo			SIL1, IIIIle CIIII GR	A v EL, trace III	ie	21
15	1						SAND (III	isi, very	suii)				
13													
16						1							
						1							
17						1							
						1							
18													
10	7	10.0	21.0	SS/14	12 11 0 0		Light De-	m /T :=1.4 C		NI T 1:441£ CP	AVEL +		20
19	7	19.0	21.0	35/14	12-11-9-9	1	SAND (mo			SILT, little cmf GR	AVEL, trace fir	IC .	20
20	1					1	Continued						

6035 Corporate Drive East Syracuse, NY 13057

SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-263

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

~~~	Ass	ociates	s, Inc.	Phone:	315-701-0522		IESI BURING I	LUG	Report No.	28062B-03-1223
					AMPLES		VISUAL CLAS	SIFICATION (		
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N
20							Continued from Page 1			
22										
<ul><li>23</li><li>24</li></ul>	8	24.0	24.8	SS/7	45-100@3"		Grey weathered ROCK fra	agments, little SII	T (wet)	100+
25						24.8'	Auger refusal @ 24.8' Bottom of Boring @ 24.8'			
26							Bottom of Boring @ 24.8			
<ul><li>27</li><li>28</li></ul>										
29										
30										
31										
33										
34										
35 36										
37										
38										
39 40										
41										
42										
43 44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	ΙĘ	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	<b>271</b> of 2
		ociates		I mone.	315-701-0522		1131	DUKL	.10	LUU	Report No.		3-03-1223
Project	Name:			us, Clay,	New York					-	Date Started		23/23
Client:		Rambo									Date Finished		23/23
Locatio	n:		_	on Locati					~-		Surface Elev.		93.1'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		J. Win			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atellı		Casing Hammer:			10/20/22		Ma a D an			
Inspecto		CMT (	- 50 <b>3</b> 7		Other:	2" OD 6	1 1' D 1	10/20/23		While Drilling	22.0		3.5
Drill Ri	g:	CME 5	550X		Soil Sampler: Hammer Wt:		Split Barrel	10/23/23		ore Casing Removed	22.0		3.5
Type: Rod Siz		ATV AWJ			Hammer Wt:	140 lbs. 30 in.		10/23/23	_	er Casing Removed	None Noted		out
Rou Siz			DOD	INC C		30 III.	1/1			er Casing Removed	caved @ 5.3		out
	LU			ING SA	AMPLES	-	V 13	SUAL C	LAS	SIFICATION C	JF MIATERIA	L	1
Depth			e Depth	Type /	Blows on	Depth of		- coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change		medium			0% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	. N.f4		20% / trace - 0 to 109	<b>%</b>	RQD %
0	1A	0.0	1.0	SS/16	1-2-4-7	<u> </u>	1 opsoil an	a Organic	viate	erial (moist)			6
1	1B	1.0	2.0				Light Brow	vn SILT, t	trace	fine SAND, trace (	CLAY (moist, m	edium	
2	2	2.0	4.0	SS/20	6-7-7-7		/	vn SILT t	trace	fine SAND, trace (	CLAY (moist. st	iff)	14
3	_							,		,		)	
4	3	4.0	6.0	SS/15	4-5-6-5		Light Brow	vn SILT, t	trace	fine SAND, trace (	CLAY (moist, st	iff)	11
5										•	,	Ź	
6	4	6.0	8.0	SS/21	5-5-5-3		Light Brow	m SII T t	trace	fine SAND (moist,	ctiff)		10
	7	0.0	0.0	55/21	3-3-3-3		Light Brov	vii SiLi, t	iracc	inic 5/11 (Hoist,	Suii)		10
7													
8	5	8.0	10.0	SS/20	1-1-2-1		Light Brow	vn SILT, t	trace	fine SAND (wet, se	oft)		3
9													
10													
11													
12													
13		12.5	15.0	00/14	0 10 11		T in the Po	CIT TO 1	11221	CDAVEL	e Carolina (	:-	22
14	6	13.5	15.0	SS/14	8-12-11		very stiff)	vn SIL1, l	iittle (	emf GRAVEL, trac	ce fine SAND (n	noist,	23
15													
16													
17													
18													
	7	18.5	20.0	SS/12	3-8-12			SILT, lit	tle cn	nf GRAVEL, little	fine SAND (we	t, very	20
19							stiff)						

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-271

 Page No.
 2 of 2

 Report No.
 28062B-03-1123

ďď	Associates, Inc. Phone: 315-701-0522						LEST BURING	LUG	Report No. 2806	2B-03-1123			
	LOG OF BORING SAMPLES						VISUAL CLAS	SIFICATION (	OF MATERIAL				
Depth Scale (Feet)	Sample No.		e Depth	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %			
20 21							Continued from Page 1						
22													
23	8	23.5	24.3	SS/8	33-100@4"		Grey weathered ROCK fra	agments, some SII	LT (moist)	100+			
24							Auger refusal @ 24.1' Bottom of Boring @ 24.3'						
26													
<ul><li>27</li><li>28</li></ul>													
29													
30													
31													
32 33													
34													
35													
<ul><li>36</li><li>37</li></ul>													
38													
39													
40													
41													
43													
44													
45													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SU	JBSURFA	ACE EX	PL	ORATION	Boring No.		281
			les e		racuse, NY 13057			BORII			Page No.		of 2
		ociates	S. Land	i none.	315-701-0522		1101		, υ.		Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		20/23
Client:		Rambo			D1						Date Finished		23/23
Location	n:			on Locati	on Plan INVESTIGATIO	NT.			CD	OUNDWATED	Surface Elev.		3.7'
Driller:		J. Win		DS OF	Casing:	3 ¼" ID	ПСЛ		Gr	ROUNDWATER	OBSERVAI	IUNS	
Driller:		R. Cas			Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:	R. Cas	atciii		Other:			10/20/23		While Drilling	6.4	1	8.0
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	10/23/23		ore Casing Removed	5.6		9.0
Type:	<b>.</b>	ATV			Hammer Wt:	140 lbs.	-	10/23/23		er Casing Removed	6.0		1.0
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		10/23/23		er Casing Removed	caved @ 8.0	(	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth		Blows on		C -	- coarse					SPT "N"
Scale	Sample	(F	_	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°		RQD %
0	1	0.0	2.0	SS/12	1-1-2-6		Light Brow	vn SILT, t	race	ORGANIC MATE	RIAL, trace fine	e SAND	3
							(moist, stif	f)					
1													
				22/10			*			<i>a a a a a a a a a a</i>	0.00		
2	2	2.0	4.0	SS/19	3-4-5-5		_	vn SILT, t	race	fine SAND, trace o	emf GRAVEL (r	noist,	9
,							stiff)						
3						Suii)							
4	3	4.0	6.0	SS/13	7-20-12-7	7 Cray/Light Drayer and CDAVEL little SHT trace fine SAND							32
4	3	4.0	0.0	33/13	/-20-12-/	Grey/Light Brown cmf GRAVEL, little SILT, trace fine SAND							32
5	1												
3													
6	4	6.0	7.3	SS/11	33-19-100@4"		Grev/Brow	n cmf GR	AVE	EL, little SILT, trac	e fine SAND (w	et. verv	100+
	•	0.0	,	00,11	20 19 100@.		compact)	• 01		22, 2121,	· 11110 2111 (2) (	,	100
7							1 /						
8	5	8.0	10.0	SS/18	12-17-28-18		Grey/Brow	n SILT, s	ome	cmf GRAVEL, trac	ce fine SAND (v	vet,	45
							hard)						
9													
10													
1.1													
11													
12													
12													
13													
	6	13.5	15.0	SS/15	17-16-27		Grey/Brow	n SILT, li	ittle c	emf GRAVEL, little	e fine SAND (m	oist,	43
14							hard)	, -		· ——,		,	
15													
16													
17													
10													
18	7	10.5	10.0	00/17	25 40 100@5"		Cass CII T	1:441	c CD	AND to C	(AND (**!-+ 1	/b.m.	100
19	7	18.5	19.9	SS/16	25-48-100@5"	Grey SILT, little cmf GRAVEL, trace fine SAND (moist, hard)						100+	
17													
20	ł						Continued	on Dage 7					

CM	E
<b>Associates</b>	Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-281

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 Auger refusal @ 21.7' 22 Bottom of Boring @ 21.7' 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E		orporate Drive	SU	J <b>BSURF</b>	ACE EX	PL(	ORATION	Boring No.		<b>292</b> of 2
	Acc	ociate	s. Inc		racuse, NY 13057		TEST	BORI	NG I	LOG	Page No.		
			The same of	T Hone.	315-701-0522						Report No.		3-03-1223
Project 1	Name:			us, Clay,	New York						Date Started		24/23
Client:		Rambo		т .	DI						Date Finished		24/23
Location	1:		_	n Locati		NT.			CD	OUNDWATED	Surface Elev.		35.5'
Driller:		B. Flet		DS OF	INVESTIGATIO	3 ¼" ID	ПСА		GK	OUNDWATER	OBSEKVAI	ION2	
Driller: Driller:		R. Cas			Casing:	3 ¼" ID	н.5.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto		R. Cas	atem		Casing Hammer: Other:	NQ-Cor	20	10/24/23	,	While Drilling	7.0	1	8.0
Drill Rig		CME 5	550Y		Soil Sampler:	-	Split Barrel	10/24/23		e Casing Removed	None Noted		8.5
Type:	<b>5•</b>	ATV	)J0A		Hammer Wt:	140 lbs.	-	10/24/23		r Casing Removed	None Noted		out
rype. Rod Size	a•	AWJ			Hammer Fall:	30 in.		10/24/23		r Casing Removed	caved @		out
NOU SIZE			P∩DI	INC S	AMPLES	30 III.	VI			SIFICATION C	)		Jui
1	LO			ING SE	AMIT LES		V 1.	SUAL C	LAS	SIFICATION	T MATERIA	L	1
Depth		_	e Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample	(F	r -	Sample	Sampler	Change		medium			% / some - 20 to 35°		or DOD 0/
(Feet)	No. 1	From 0.0	To 2.0	Rec. (in.) SS/14	Per 6 Inches 2-1-3-4	(Ft.)		- fine	lear C	little - 10 to 2 ILT, trace CLAY,	trace POOTS (		RQD %
U	1	0.0	2.0	35/14	2-1-3-4		_	_	rey S	ILI, trace CLAY,	trace ROOTS (	moist,	4
1							medium sti	11)					
1													
2	2	2.0	4.0	SS/20	3-6-4-6		Light Duce	m/I jobt C	lear C	ILT, trace CLAY,	traca DOOTS (	maist	10
2	2	2.0	4.0	35/20	3-0-4-0		_	ıı/Lignt C	rey S	ılı, ırace CLAY,	uace KOO18 (	moist,	10
2							stiff)						
3													
4	2	4.0	60	00/10	2 2 2 2		I :-1 / D	OII T	6	Sur CAND ( )	41.		,
4	3	4.0	6.0	SS/18	2-2-2-2		Light Brow	n SILT, t	race f	ine SAND (moist,	medium stift)		4
5													
	4			ac is s	2 4 4 5		T 1 1 . F	GII			.: 00		_
6	4	6.0	8.0	SS/16	2-4-4-5		Light Brow	n SILT, t	race f	ine SAND (moist,	stiff)		8
_													
7													
	_	0.0	100	99.45	2 2 2 4		T 1 1 5	ar	~		11 100		
8	5	8.0	10.0	SS/17	3-3-3-4		Light Brow	n SILT, t	race f	ine SAND (moist,	medium stiff)		6
_													
9													
10													
11													
12													
10													
13	_	1.2 -	,	00/110	2.2.2.		* * * * ~	arr ==	~-	GANES (	11 122		
	6	13.5	15.0	SS/19	3-2-3-2		Light Grey	SILT, tra	ce fin	e SAND (wet, me	dıum stiff)		5
14													
15													
16													
17													
							Augered ho						
18	7	18.0	18.5	SS/6	100@6"		Dark Grey	weathere	d ROO	CK fragments, trac	e SILT (wet)		100+
						<u></u>				t up to core.			]
19	R1	18.5	23.5	C/60	NQ-Core		Dark Grey	Black DO	DLOS	TONE with interb	edded Shale lay	ers	83%
							(<1/8" thic				•		
20						Ī	Continued						

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-292** 2 of 2 Page No. Report No. 28062B-03-1223

VISUAL CLASSIFICATION OF MATERIAL **LOG OF BORING SAMPLES** Sample Depth SPT "N" Depth Blows on c - coarse Depth of Type / (Ft.) Sample Sampler Scale m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From Per 6 Inches RQD % (Feet) No. To Rec. (in.) (Ft.) f - fine little - 10 to 20% / trace - 0 to 10%20 Continued from Page 1 Horizontal fractures with iron staining @ 19.1' and 19.3'. Recovery: 60''/60'' = 100%21 ROD: 50"/60" = 83% 8 Pieces, 1" Chips and fragments 22 1:30 min/ft, water loss @ 19.5' 23 Coring conducted in 5th gear, 2400 rpm, 400 psi down pressure. R2 23.5 C/60 Dark Grey/Black DOLOSTONE with interbedded Shale layers 47% 28.5 NQ-Core 24 (<1/8" to 1/2" thick) throughout, moderately weathered, thickly bedded, hard. SILT seams @ 24.8' to 25.1', 26.3' to 26.5' and 28.0'. 25 Weathered and broken zone from 27.0' to 28.5' with breaks along Shale seams. 26 Recovery:  $60''/60'' = 100\% \mid RQD$ : 28''/60'' = 47%14 Pieces, 6" Chips and fragments 1.0' to 3.0', 1:30 min/ft, 3.0' to 5.0', 2:20 min/ft, water loss - no 27 Coring conducted in 5th gear, 2400 rpm, 400 psi down pressure. 28 Bottom of Boring @ 28.5' 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 C	orporate Drive	SI	JBSURF	ACE EX	PL4	ORATION	Boring No.	B-	300
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 2
		ociates	No.	i none.	315-701-0522	<u> </u>	11231	DOM	10.	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		06/23
Client:		Rambo									Date Finished		06/23
Locatio	n:			on Locati		N.T.			CD		Surface Elev.		93.6'
Driller:				DS OF	INVESTIGATIO	3 ¼" ID	II C A	1	GK	ROUNDWATER	OBSERVAI	IONS	
Driller:		A. Lins D. Mac		1	Casing: Casing Hammer:	3 ¼" ID	н.з.а.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspect					Other:	NQ-Cor	e	10/06/23		While Drilling	15.1	1	8.5
Drill Ri		CME		,	Soil Sampler:	-	plit Barrel	10/06/23		ore Casing Removed	12.7		8.0
Type:		Track			Hammer Wt:	140 lbs.	-	10/06/23		er Casing Removed	11		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		10/06/23	Afte	er Casing Removed	caved @ 18.5		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 359	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/14	1-2-3-5				, littl	e fine SAND, trace	ROOTS (moist	Ξ,	5
							medium sti	ff)					
1													
2		2.0	4.0	GG/21	4 2 2 2		D CII	Tr 4 C	C	AND 4 CLAY	( , 1°		
2	2	2.0	4.0	SS/21	4-3-3-3		Brown SIL	1, trace II	ne S	AND, trace CLAY	(wet, medium s	tiii)	6
3													
3													
4	3	4.0	6.0	SS/24	2-2-1-2		Brown SII	T some (	LAY	, trace fine SAND	(wet_soft)		3
_	3	4.0	0.0	55/24	2-2-1-2		Diown SiL	i, some C	<i></i>	, trace fine 57111D	(wet, 501t)		3
5	i												
6	4	6.0	8.0	SS/22	3-3-10-15		Brown SIL	T, some c	mf S	AND, little fine Gl	RAVEL (wet, sti	iff)	13
7													
8	5A	8.0	9.5	SS/20	10-15-12-24		Brown SIL	T, some C	LAY	, trace fine SAND	(wet, very stiff)	)	27
9	5 D	0.5	100				G GILE	1 0/		CODAT	TT ( )		
10	5B	9.5	10.0				Grey SIL I	and cmf	SANI	D, some mf GRAV	EL (wet)		
10													
11													
11													
12													
13													
	6	13.5	15.0	SS/2	10-12-23		Grey cmf S	SAND and	SIL	T, some mf GRAV	EL (wet, compa	ict)	35
14							See Remar	k 1			•		
15													
16													
17													
17													
18													
10	7	18.5	20.5	SS/12	WR-WR-2-7		Brown fine	SAND t	race !	SILT, trace fine G	RAVEL (wet ve	erv	2
19		10.5	_0.5	20,12			loose)	, 1		, auce ime of	(,, 0,, 10	J	_ [
							,						
20	1				l	1	Continued	on Dogo 2					1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. 2" recovery with 2" spoon, therefore a 3" spoon was utilized.

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-300

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

**LOG OF BORING SAMPLES** VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Depth of Type / (Ft.) Sample Scale Sampler m - medium and - 35 to 50% / some - 20 to 35% Change or Sample ROD % (Feet) No. From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.5 SS/13 9-10-13 23 25.0 Grey cmf SAND, trace fine GRAVEL (wet, medium compact) 24 25 26 Augered gravelly beginning @ 26.5' 27 Auger refusal @ 28.0' 9 SS/0 100@0" 100+ 28.0 28.0 No Recovery. See Remark 1 28 R1 33.0 C/60 NQ-Core 28.0' to 29.3'; Dark Grey/Black SHALE, slightly weathered, 87% 28.0 29 laminated to thinly bedded, medium hard. 29.3' to 33.0'; Dark Grey/Black DOLOSTONE with interbedded 30 SHALE layers (<1/8" to 3" thick) throughout, slightly weathered, laminated to thinly bedded, medium hard to hard. Weathered zone in Shale @ 35.7' to 35.9'. 31 Recovery: 60''/60'' = 100% | RQD: 520''/60'' = 87%32 15 Pieces, 3" Chips and fragments 3:45 min/ft, no water loss Coring conducted in 5th gear, 2500 rpm, 650 psi down pressure. R2 100% 33 33.0 38.0 C/60NQ-Core Dark Grey/Black DOLOSTONE with interbedded Shale layers (<1/8" to 2" thick) throughout, sound, laminated to thickly bedded, 34 hard. Recovery: 60''/60'' = 100%35 ROD: 60''/60'' = 100%6 Pieces, 0" Chips and fragments 3 min/ft, no water loss 36 Coring conducted in 5th gear, 2500 rpm, 650 psi down pressure. 37 Bottom of Boring @ 38.0' 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

**Remarks:** 1. Grey ROCK chips and fragments on spoon top

		M			orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PLO	ORATION	Boring No.		301
	Acer	ciates	Inc		racuse, NY 13057		TEST	BORI	NG I	LOG	Page No.		of 1
			The same of	i none.	315-701-0522						Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		20/23
Client:		Rambo		*	D1						Date Finished		20/23
Location	n:			on Locati	on Plan INVESTIGATIO	NI			CD	OUNDWATER	Surface Elev.		2.6'
Driller:		Brian S		DS OF	Casing:	4 ¼" ID	ПСЛ		GK	OUNDWALER	OBSERVAI	IONS	
Driller:		Jason I			Casing Hammer:	4 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:		_	na, EIT	Other:			09/20/23		While Drilling	None Noted		
Drill Ri		CME I		,	Soil Sampler:	2" OD S	plit Barrel	09/20/23		re Casing Removed	None Noted	ç	0.4
Type:		Track			Hammer Wt:	140 lbs.	•	09/20/23		er Casing Removed	7.2	(	out
Rod Siz	e:	NWJ			Hammer Fall:	30 in.		09/20/23	Afte	er Casing Removed	Caved @ 7.7	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/18	WH-2-5-6				ine Sa	AND, trace ORGA	NIC MATTER	(moist,	7
							medium sti	11)					
1													
2	2	2.0	4.0	SS/20	7-5-4-5		Brown mot	tled SILT	trac	e fine SAND, trace	CLAY (wet_st	iff)	9
~	_	2.0	1.0	55/20	, 3 . 3		Brown mo	ilea SILI	,	e ime si i (b, irae)	, cert (e., s.	111)	
3													
4	3	4.0	6.0	SS/21	1-1-1-2		Brown SII	T, little C	CLAY	, trace fine SAND	(wet, soft)		2
5													
(	4	( 0	7.4	GG/10	2 17 100 (2) 5 !!		D CII	т 1	C C A N	AID	VEL (4 14)		100
6	4	6.0	7.4	SS/10	3-17-100@5"		Brown SIL	1 and cm	I SAI	ND, some mf GRA	VEL (wet, nard)	)	100+
7													
,													
8	5	8.0	8.3	SS/4	100@4"		Grey/Brow	n mf GRA	AVEI	and cmf SAND, 1	ittle SILT (wet,	very	100+
					0		compact)				,	•	
9							Auger refu						
							Bottom of	Boring @	9.4'				
10													
11													
11													
12													
13													
14													
1.5													
15													
16													
10													
17													
18													
19													

	C	M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	PL	ORATION	Boring No.		302
	Assi	ociates	Inc		racuse, NY 13057		TEST	BORI	NG :	LOG	Page No.		of 1
			Stanton St	T Hone.	315-701-0522						Report No.		3-03-1223
Project Client:	Name:	Rambo		us, Ciay,	New York						Date Started Date Finished		21/23
Location	n•			n Locati	on Dlan						Surface Elev.		92.3'
Locatio					INVESTIGATIO	N			GR	ROUNDWATER			72.3
Driller:		Brian S		<b>D</b> 5 <b>O</b> 1	Casing:	4 ¼" ID	H.S.A.		GI				
Driller:			el Mitra	no	Casing Hammer:	. , 4 12	11.5.1.1.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspecto	r:	Astitwa	a Sharm	na, EIT	Other:			09/21/23		While Drilling	9.3	1	0.3
Drill Ri	g:	CME I	LC 55		Soil Sampler:	2" OD S	plit Barrel	09/21/23	Befo	ore Casing Removed	12.3	1	3.2
Type:		Track			Hammer Wt:	140 lbs.		09/21/23	Aft	er Casing Removed	11.2	·	out
Rod Siz		NWJ			Hammer Fall:	30 in.		09/21/23		er Casing Removed	Caved @ 12.2		out
	LO	G OF	BORI	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		Sample		Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 359		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/20	WH-2-3-5		(moist, med			ce fine SAND, trace	e ORGANIC MA	ATTER	5
1													
2	2	2.0	4.0	SS/16	6-6-4-4		Brown mot	ttled SILT	, trac	ce fine SAND (wet,	, stiff)		10
3													
4	3	4.0	6.0	SS/13	1-1-3-3		Brown SIL	T, trace fi	ine S.	AND, trace CLAY	(wet, soft)		4
5													
6	4	6.0	8.0	SS/15	4-7-8-9		Brown SIL	T, little cı	mf S <i>i</i>	AND, trace fine GF	RAVEL (wet, sti	ff)	15
7											` .		
	5 1	8.0	9.5	SS/16	15-12-18-35		Similar on	a <b>h</b> ayya ( <b></b>	int -	varry at:ff)			30
8	5A	8.0	9.3	33/10	13-12-16-33		Similar as	above (IIIC	oist, v	very surry			30
9	5B	9.5	10.0				Gray mf G	DAMEI .		SILT, some cmf S	AND (maist me	dium	
10							compact)	Augered h	ard l	beginning @ 10.3'.	·	zarum	
11	6	10.3	12.3	SS/10	36-31-36-54		compact)			GRAVEL, little SII	LT (moist, very		67
12	7	12.3	14.3	SS/6	13-60-43-30					@ 11.8'. ROCK chips and f	ragments, some	SILT	103
13							(moist) <i>Auger refu</i>	sal @ 13	2'				
14							Bottom of	Boring @	14.3'				
15													
16													
17													
18													
19													

	C	V	E		orporate Drive racuse, NY 13057	SU			XPLORATION		Boring No. Page No.		-303 of 1
	Ass	ociates	s, Inc.	•	315-701-0522		TEST	ROKI	NG LOG	ŀ	Report No.		3-03-1223
Project N	Name:	Micror	1 Camp		New York	-					Date Started		21/23
Client:		Rambo		,,,							Date Finished		21/23
Location	•			on Locati	on Plan						Surface Elev.		90.8'
Location	••		_		INVESTIGATIO	N			GROUNDWAT	LEB			
Driller:		Brian S		DO OF	Casing:	4 ¼" ID	HSA		GROUNDWA	1	ODSERVAL		
Driller:			el Mitra	mo	Casing Hammer:	7/4 ID	11.5.A.	Date	Time		Depth (Ft.)	Casing	g At (Ft.)
Inspecto				na, EIT	_			09/21/23	While Drilling		10.0	1	8.0
Drill Rig		CME I		na, EH	Soil Sampler:	2" OD S	Inlit Dorrel	09/21/23	Before Casing Remo	avad	14.4		9.8
_	<b>;•</b>	Track	LC 33		Hammer Wt:	140 lbs.	Split Barrel	09/21/23	After Casing Remo		11.6		
Type:													out
Rod Size		NWJ	DOD	DIG G	Hammer Fall:	30 in.	X 7T	09/21/23	After Casing Remo		Caved @ 16.1		out
	LO	T		ING SA	AMPLES		VI	SUAL C	LASSIFICATIO	)N U	F MATERIA	<b>L</b>	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample	(F	(t.)	Sample	Sampler	Change	m -	medium	and - 35	to 50°	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/18	WH-1-4-5				ine SAND, trace Ol	RGA	NIC MATTER	(moist,	5
1							medium st	iff)					
2	2	2.0	4.0	SS/20	5-6-6-5		Brown mo	ttled SILT	, trace CLAY, trace	e fine	e SAND (wet, st	tiff)	12
3													
4	3	4.0	6.0	SS/17	WH-1-1-1	Brown SILT, little CLAY, trace cmf SAND (wet, soft)							2
5													
6	4	6.0	8.0	SS/16	1-1-2-3		Brown SIL	T, some (	CLAY (wet, soft)				3
7	5	8.0	10.0	SS/11	10-13-11-10		Danayya /Can	£ C A	ND and mf CD AV	TI «	oma CH T (vyot		24
8	3	8.0	10.0	33/11	10-13-11-10		medium co		ND and mf GRAV	EL, S	some SIL1 (wet	,	24
9								inpact)					
10													
11													
12													
13	6	13.0	15.0	SS/17	16-16-16-21		Grey SILT	, some cm	nf SAND, little mf (	GRA`	VEL (moist, ha	rd)	32
14													
15													
16													
17													
18	7	18.0	19.8	SS/13	18-16-30-100@3"		Similar as	above (we	et, hard)				46
19							Auger refu	sal @ 10	8'				
			I	I				~	-				

20 Bottom of Boring @ 19.8'
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
Remarks:

				6035 Cd	orporate Drive	ÇI	IRSURE	CF FX	DI (	ORATION	Boring No.	B-	304
		IV			racuse, NY 13057	50					Page No.	1 (	of 1
	Asso	ociates	s, Inc.	Phone: 3	315-701-0522		IESI	BORI	NG	LUG	Report No.	28062B	-03-1223
Project	Name:	Micron	Camp	us, Clay,	New York	-					Date Started	09/2	21/23
Client:		Rambo									Date Finished	09/2	21/23
Location	n:		•	n Locati			-				Surface Elev.		0.5'
				DS OF	INVESTIGATIO			-	GR	OUNDWATER	OBSERVAT	IONS	
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto	ar.	Jason E Astitwa	_	na FIT	Casing Hammer: Other:			09/21/23		While Drilling	6.3	S	5.0
Drill Ri		CME I		ia, E11	Soil Sampler:	2" OD S	plit Barrel	09/21/23		ore Casing Removed	3.0		9
Type:	<b>5</b> '	Track			Hammer Wt:	140 lbs.	pin Buiter	09/21/23		er Casing Removed	4.2		out
Rod Siz	e:	NWJ			Hammer Fall:	30 in.		09/21/23		er Casing Removed	Caved @ 7.8	C	ut
	LO	G OF	BOR	ING SA	MPLES		VIS	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 359	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%	<b>6</b>	RQD %
0	1A	0.0	0.8	SS/21	WH-2-3-4		Topsoil and					. —	5
1	1B	0.8	2.0				Brown SIL	1, trace n	ni SA	ND (moist, mediu	n stiff)		
1													
2	2	2.0	4.0	SS/20	4-4-7-7		Brown SIL	T. trace fi	ine S	AND (wet, stiff)			11
	_	2.0		22.20	, ,		210 1111 212	1, 111100 1		11.12 ()			
3													
4	3	4.0	6.0	SS/15	2-5-4-3		Brown SII	T, trace (	CLAY	Y, trace fine SAND	(wet, stiff)		9
5													
(	4	6.0	8.0	SS/20	3-4-5-4		D CII	т 1:441	CCV.	ND to a CLAY	CD AX	TET.	9
6	4	0.0	8.0	55/20	3-4-3-4		(wet, stiff)	1, nue n	п за	ND, trace CLAY, t	race line GRAV	/ EL	9
7							(wci, siiii)						
,													
8	5	8.0	9.1	SS/7	36-61-100@1"		Brown/Gre	y mf GRA	AVEI	L, some SILT, little	cmf SANDT (v	vet, very	100+
							compact)						
9							Auger refu						
- 10							Bottom of	Boring @	9.1'				
10													
11													
11													
12													
13													
14													
1.5													
15													
16													
10													
17													
18													
19													
20	Į												

		N/		6035 Co	orporate Drive	SI	IRSURF	ACE EX	XPLORATION	Boring No.	B-3	04A
		IV		East Syr	racuse, NY 13057					Page No.	1 (	of 2
	Asso	ciates	, Inc.	Phone:	315-701-0522		ILSI	BUKI	NG LOG	Report No.	28062B	-03-1223
Project 1					New York					Date Started	10/0	06/23
Client:		Rambo	11							Date Finished	10/0	06/23
Location	1:	See Ex	ploratio	n Locati	on Plan					Surface Elev.	39	0.5'
	•	ME	THO	DS OF	INVESTIGATIO	N			GROUNDWATER	OBSERVAT	IONS	
Driller:		A. Lins	truth		Casing:	3 ¼" ID	H.S.A.	Data	T:	Donth (Et.)	Casina	A4 (E4.)
Driller:		J. Winl	KS .		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto					Other:	NQ-Cor		10/06/23	While Drilling	8.5		3.5
Drill Rig	g:	CME 5	5		Soil Sampler:		plit Barrel	10/06/23	Before Casing Removed	8.7	2	3.6
Type:		ATV			Hammer Wt:	140 lbs.		10/06/23	After Casing Removed	6.0	C	ut
Rod Size		AWJ			Hammer Fall:	30 in.		10/06/23	After Casing Removed	caved @ 11.7		ut
	LO	G OF	BORI	NG SA	AMPLES		VIS	SUAL C	LASSIFICATION C	OF MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium		% / some - 20 to 35%		or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	little - 10 to 2	20% / trace - 0 to 10%	6	RQD %
0							See Remar	ks				
1												
1												
2												
3												
4												
7												
5												
6												
7												
8												
9												
10												
11												
12												
13												
13	1A	13.5	14.1	SS/17	3-6-6		Brown cm	fSAND t	trace fine GRAVEL, tra	ce SILT (wet_m	edium	12
14	111	13.3	1 1.1	55/1/	300		compact)		Ime Old I v DD, ua	5.2.1 ( ,, 111	- 614111	12
	1B	14.1	15.0					AND and	SILT (wet)			
15												
16												
17												
18												
10	2	18.5	19.2	SS/6	14-100@2"		Grev cmf S	SAND and	d cmf GRAVEL, little S	ILT (wet. verv o	omnact)	100+
19	-	10.0		25,0	1. 100@2			v. uni	3141, ED, 11010 D	(, , , , , , ,	puci)	100.

20 Continued on Page 2
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
Remarks: 1. Boring B304A was offset about 5' from original location and augered to 13.5' below existing grade. Sampling was commenced from 13.5' below grade.

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 304A

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From То Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 21 22 23 3 23.5 SS/10 18-47-100@3" Grey cmf SAND, some cmf GRAVEL, little SILT, little ROCK 100+ 24.8 24 fragments (moist, very compact) 25 25.2 SS/0 Auger refusal @ 25.2' 4 25.2 Cored 8" COBBLE, then into SOIL. Stopped @ 28.0'. R1 25.2 28.0 NQ-Core 26 27 5 100+ SS/6 34-100@1" Black ROCK fragments, trace SILT (moist) 28.0 28.6 28 Bottom of Boring @ 28.6' 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

						1							
					orporate Drive	SI	J <b>BSURF</b> A	ACE EX	(PL	ORATION	Boring No.		306
					racuse, NY 13057			BORI			Page No.		of 2
		ociates	2000	i none.	315-701-0522		11201	DOM	. 10		Report No.		3-03-1223
Project	Name:			us, Clay,	, New York						Date Started		03/23
Client:		Rambo									Date Finished		03/23
Locatio	n:			on Locati							Surface Elev.		38.3'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	ROBSERVAT	TONS	
Driller:		A. Lin			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Driller:			cDough		Casing Hammer:			10/02/22		Ma a D an			
Inspect Drill Ri		CME 5	a Sharn	na, EH	Other:	2" OD 6	ulit Damal	10/03/23		While Drilling	9.7 9.8		3.5
Type:	ıg:	Track	))		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	10/03/23		ore Casing Removed er Casing Removed	11.5		out
Rod Siz	··	AWJ			Hammer Fall:	30 in.		10/03/23		er Casing Removed	caved @ 15.9		out
Kou Siz			<b>P</b> ∩D	INC S	AMPLES	30 III.	VI			SIFICATION C			Jui
	LO	T		ING SA			V 1.	SUAL C	LAS	I	JE WIATEKIA	LL.	
Depth		Sample (F	e Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale (Feet)	Sample	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			0% / some - 20 to 35° 20% / trace - 0 to 10°		or RQD %
0	No.	0.0	2.0	SS/10		(Ft.)			race t	fine SAND, trace R			14
U	1	0.0	2.0	55/10	3-7-7-7		Gicy/Diow	n Silli, u	i acc i	inic SAND, trace is	COOTS (IIIOISI, S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	17
1													
1													
2	2	2.0	4.0	SS/20	4-4-7-7		Brown mot	tled SILT	`. trac	e fine SAND (wet	. stiff)		11
_									,	(	,)		
3													
4	3	4.0	6.0	SS/17	4-5-7-4		Brown/Gre	y SILT, li	ittle (	CLAY, trace fine S	AND (wet, stiff)	)	12
								•		•		,	
5	]												
6	4	6.0	8.0	SS/19	4-4-6-6		Brown mot	tled SILT	`, trac	e CLAY, trace fine	e SAND (wet, st	tiff)	10
7													
_													
8	5	8.0	10.0	SS/20	3-4-4-5		Similar as	above (we	et, sti	ff)			8
9													
10	4												
10													
11													
11						1							
12													
12													
13						1							
	6	13.5	15.0	SS/12	3-2-2		Grey CLA	Y and SIL	T (w	et, medium stiff)			4
14						1	] , , , , , , , ,	211	(	, 2••••)			
						1							
15						1							
						1							
16						1							
						1							
17													
						1	1.	_					
18	_					1				ng @ 18.0'			
	7	18.5	20.0	SS/12	2-2-2					e SILT, little cmf S	SAND, little fine		4
19						1	GRAVEL	(wet, med	ium	stiff)			
20							Continued	D 2					
711					•	4	H Continued	on Hogo	,				

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-306** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.5 24.7 SS/9 13-37-100@2" Grey ROCK chips and fragments, little mf GRAVEL, trace SILT 100 +24 Auger refusal @ 25.3' 25 Bottom of Boring @ 25.3' 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	Œ	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	<b>307</b> of 2
		ociate		I mone.	315-701-0522		TEST	DOM	10	LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		21/23
Client:		Rambo									Date Finished		21/23
Locatio	n:		_	on Locati							Surface Elev.		88.7'
				DS OF	INVESTIGATIO				Gl	ROUNDWATER	R OBSERVAT	IONS	
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casino	At (Ft.)
Driller:		Jason l	_		Casing Hammer:						Depth (Ft.)	Casing	At (Ft.)
Inspect				na, EIT	Other:			09/21/23		While Drilling	3.4		3.0
Drill Ri	g:	CME I	LC 55		Soil Sampler:		Split Barrel	09/21/23		ore Casing Removed	5.5	2	3.5
Type:		Track			Hammer Wt:	140 lbs.		09/21/23		ter Casing Removed	9.0	(	out
Rod Siz		NWJ			Hammer Fall:	30 in.		09/21/23		ter Casing Removed	Caved @ 12.3		
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	)F MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	20% / trace - 0 to 10°	<b>%</b>	RQD %
0	1	0.0	2.0	SS/18	1-3-5-7		Brown SIL	T, trace f	ine S	AND, trace ORGA	NIC MATTER	(moist,	8
							medium sti	iff)					
1													
2	2	2.0	4.0	SS/22	3-6-5-6	Brown mottled SILT, trace fine SAND, trace CLAY (moist, stiff)							11
3													
				6.0   SS/17   2-5-5-6			G: '1 1 ( / / / CO)						
4	3	4.0	6.0	SS/17	2-5-5-6		Similar as	above (we	et, sti	iff)			10
5													
6	4	6.0	8.0	SS/18	4-5-4-6		Similar as	above (we	et, sti	iff)			9
7													
	_												
8	5	8.0	10.0	SS/12	2-4-3-4		Grey SILT	and CLA	Y (v	vet, medium stiff)			7
_													
9													
10													
10													
1.1													
11													
12													
12													
13	6	13.0	15.0	SS/13	1-3-2-2		Grov CLA	V and SII	т (у	vet, medium stiff)			5
13		13.0	15.0	33/13	1-3-4-4		OICY CLA	ı anu sil	л (v	vet, medium sum)			]
14													
17													
15	1												
1.5													
16													
10													
17													
1													
18	7	18.0	20.0	SS/12	WH-WH-4-6		Grev CLA	Y and SII	T. se	ome cmf SAND, lit	tle mf GRAVEI	(wet.	4
	'	- 5.5	= 3.0				medium sti		-, 5	<i></i> ,		(,	'
19								•)					
20	1	Ī			ĺ	1	la 1	D 0					I

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-307** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.0 23.0 SS/0 100@0" No Recovery. See Remark 1 100 +Auger refusal @ 23.5' Bottom of Boring @ 23.5' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

1. Grey weathered ROCK chips and fragments on spoon top Remarks:

	C	M	E		orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		<b>308</b> of 2
	Ass	ciate	s. Inc.	-	315-701-0522		TEST	BORI	NG	LOG	Report No.		3-03-1223
Project				i none.	New York	J					Date Started		20/23
Client:	Ivame:	Rambo		us, Ciay,	New TOIK						Date Started  Date Finished		20/23
				т	DI.								
Locatio	n:		_	on Locati		NT.			CI	OUNDWATER	Surface Elev.		9.5'
Driller:				DS OF	INVESTIGATIO	4 ¼" ID	TI C A		Gi	ROUNDWATER	OBSERVAI	IONS	
		Brian S			Casing:	4 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		Jason I	_	na, EIT	Casing Hammer: Other:			09/20/23		While Drilling	14.0		3.0
Inspect		CME I		na, EH		2" OD 6	Inlit Domal	09/20/23	D.f	ore Casing Removed	6.0		5.2
Drill Ri	g:	Track	JC 33		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	09/20/23		er Casing Removed	5.9		
Type: Rod Siz		NWJ			Hammer Fall:	30 in.		09/20/23		er Casing Removed	Caved @ 13.6	- (	out
Rou Siz			DOD	ING C		30 III.	X71					т	
	LO			ING SA	AMPLES		V 13	SUAL C	LAS	SSIFICATION O	JF MIATERIA	L	Г
Depth			e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change		medium			0% / some - 20 to 359		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/9	1-3-4-5					fine SAND, trace C	ORGANIC MAT	TER	7
							(moist, me	dium stiff	()				
1													
2	2	2.0	4.0	SS/5	5-4-5-5	Dark Brown SILT, trace fine SAND, trace CLAY (moist, stiff)							9
3													
4	3	4.0	6.0	SS/17	WH-3-3-3		Brown SIL	T, trace f	ine S	AND, trace CLAY	(wet, medium s	tiff)	6
5													
6	4	6.0	8.0	SS/15	3-4-4-5		Brown SIL	T, little C	CLAY	, trace fine SAND	(wet, stiff)		8
7													
8	5	8.0	10.0	SS/14	2-3-4-4		Grey/Brow	n SILT a	nd C	LAY (wet, medium	stiff)		7
9													
10													
11													
12													
13	6	13.0	15.0	SS/11	2-5-4-4		Grey CLA	Y and SII	LT (w	et, stiff)			9
14													
	4												
15													
16													
17													
18	7	18.0	20.0	SS/22	WH-WH-WH-1			Y and SII	LT, tr	ace cmf SAND, tra	ice fine GRAVE	L (wet,	0
							very soft)						
19													
	1												
20	1				Ī	1	10 1	ъ с					

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-308

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522					315-701-0522		TEST DOMING		Report No.	28062B-03-1223
					AMPLES		VISUAL CLAS	SIFICATION (		L
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	
20	110.	110111	10	100. (III.)	Ter o menes	(11.)	Continued from Page 1	IIII0 - 10 to 2	20,07 4400 - 0 10 107	KQD /0
21										
22										
23	8	23.0	25.0	SS/13	WH-WH-10-20		Grey cmf SAND and mf (	GRAVEL, little SI	LT (wet, loose)	10
24										
25	9	25.2	25.4	SS/2	100@3"		Auger refusal @ 25.2' ROCK chips and fragmen	ts, little cmf SAN	D, trace SILT (w	et) 100+
26							Bottom of Boring @ 25.4'			
27										
28										
29										
30										
31										
32 33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45	I	1	I			1	ĺ			1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	F		orporate Drive	SU	JBSURFA	ACE EX	XPLORAT	ION	Boring No.		314
			100		racuse, NY 13057		TEST	BORI	NG LOG		Page No.		of 2
	Asso	ciates	20 may	T Hone.	315-701-0522		11.01	DOM	10 200		Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started	09/	20/23
Client:		Rambo	11								Date Finished	09/2	20/23
Location	n:	See Ex	ploratio	n Locati	on Plan						Surface Elev.		2.0'
		ME	THO	DS OF	INVESTIGATIO	N			GROUND	<b>WATER</b>	OBSERVAT	IONS	
Driller:		Brian S	Swartz		Casing:	4 ¼" ID	H.S.A.	Data	Tim		Depth (Ft.)	Casina	. A 4 (E4.)
Driller:		Jason I	Ersing		Casing Hammer:			Date	1 1111	ie	<b>Depth (Ft.)</b>	Casing	g At (Ft.)
Inspecto	or:	Astitwa	a Sharm	na, EIT	Other:			09/20/23	While D	rilling	None Noted		
Drill Ri	g:	CME I	C 55		Soil Sampler:	2" OD S	plit Barrel	09/20/23	Before Casing	g Removed	21.8		22
Type:		Track			Hammer Wt:	140 lbs.		09/20/23	After Casing	Removed	6.5	(	out
Rod Siz	e:	NWJ			Hammer Fall:	30 in.		09/20/23	After Casing	Removed	Caved @ 13.0	(	out
	LO	G OF	BORI	ING SA	AMPLES		VIS	SUAL C	LASSIFIC	ATION (	OF MATERIA	L	
D 4		Sample											CDT ID III
Depth	Commis	(F		Type /	Blows on	Depth of		coarse		and 25 to 50	00/ / same 20 to 250	1/	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			0% / some - 20 to 359 20% / trace - 0 to 109		or RQD %
0	1	0.0	2.0	SS/16		(1.1.)					NIC MATTER		8 8
U	1	0.0	2.0	33/10	1-3-3-0		stiff)	i, uacc i	inc SAND, in	acc ORGA	INIC MATTER	(IIIOISI,	0
1							Suii)						
1													
2	2	2.0	4.0	SS/24	4-5-6-7		Duorryn mot	+1~4 CII T	1:41° CL V	traca fin	e SAND (moist,	atiff)	11
2		2.0	4.0	33/24	4-3-0-7		DIOWII IIIO	illed SIL I	, IIIIIe CLA I	, trace fine	SAND (IIIOISI,	Suii)	11
2													
3													
	2	4.0		00/10	1 2 5 5		D.	1 1 011 1	CT AT	, c	CAND (		0
4	3	4.0	6.0	SS/18	1-3-5-5		Brown mot	ttled SILT	, trace CLAY	trace fine	e SAND (wet, st	111)	8
	ļ												
5													
_			0.0	22/12			D 677	<b></b>					
6	4	6.0	8.0	SS/13	8-8-7-8		Brown SIL	T, trace C	CLAY (wet, v	ery stiff)			15
_													
7													
	_												
8	5	8.0	10.0	SS/15	2-2-2-3		Grey CLA	Y and SIL	T (wet, medi	um stiff)			4
_													
9													
10													
11													
12													
13													
	6	13.0	15.0	SS/6	5-7-10-9				l mf GRAVE	L, little CI	LAY, trace SILT	(wet,	17
14							medium co	mpact)					
15													
16													
17													
18							See Remar	k 1					
19													
	J												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks:

1. Sampling not feasible between 18.0' to 20.0' due to flowing sand conditions.

CME
Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-314

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

					315-701-0522		TEST BURING I	LUG	Report No.	28062B-03-1223
					AMPLES		VISUAL CLAS	SIFICATION (		L
Depth Scale (Feet)	Sample No.	Sample	Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	
20							Continued from Page 1			
21										
22							Auger refusal @ 22.0'			
23							Bottom of Boring @ 22.0'			
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	F		orporate Drive	SU	JBSURFA	ACE EX	(PLORATIO	N	Boring No.		324
					racuse, NY 13057		TEST	RORI	NG LOG		Page No.		of 2
		ciates	20 may	T Hone.	315-701-0522		1101	DOM	10 200		Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		19/23
Client:		Rambo									Date Finished	09/	19/23
Locatio	n:			n Locati							Surface Elev.		00.7'
		ME	THO	DS OF	INVESTIGATIO	N			GROUNDWA	ATEF	R OBSERVAT	IONS	
Driller:		Brian S	Swartz		Casing:	4 ¼" ID	H.S.A.	Date	Time		Depth (Ft.)	Cosino	At (Ft.)
Driller:		Jason I	_		Casing Hammer:							Casing	; At (Ft.)
Inspecto				na, EIT	Other:			09/19/23	While Drillin		None Noted		
Drill Ri	g:	CME I	C 55		Soil Sampler:		Split Barrel	09/19/23	Before Casing Rea		20.9	2	5.9
Type:		Track			Hammer Wt:	140 lbs.		09/19/23	After Casing Ren		8.3	(	out
Rod Siz		NWJ			Hammer Fall:	30 in.		09/19/23	After Casing Ren		Caved @ 20.9		out
	LO	G OF	BORI	ING SA	AMPLES		VIS	SUAL C	LASSIFICATI	ON (	OF MATERIA	L	
Depth		Sample	Depth	T/	Blows on	D. 41 . 6	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium	and -	35 to 50	0% / some - 20 to 35°	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/19	WH-2-3-3		Brown SIL	T, trace f	ine SAND, trace	ORGA	NIC MATTER	(moist,	5
							medium sti	iff)					
1													
2	2	2.0	4.0	SS/24	7-5-5-5		Brown/Pin	kish SILT	, trace CLAY, tra	ace fin	e SAND (moist,	stiff)	10
3													
4	3	4.0	6.0	SS/15	WH-3-3-4		Similar as	above (we	et, medium stiff)				6
5													
6	4	6.0	8.0	SS/13	5-4-6-8		Similar as	above (we	et, stiff)				10
7													
8	5	8.0	10.0	SS/15	1-3-5-5		Brown SIL	T, trace f	ine SAND (wet, s	stiff)			8
9													
- 10													
10													
11													
10													
12													
12													
13	-	12.0	15.0	00/17	WII 4 5 1 1		Cwa CIT TO	and CT 4	V	NID 11	#1a mf CD A 17E1	(***-*	0
1 /	6	13.0	15.0	SS/16	WH-4-5-11			and CLA	Y, some cmf SA	ND, III	tile mi GRAVEL	(wet,	9
14							stiff)						
1.5													
15							Can Dame	I- 1					
1.0							See Remar	K I					
16													
17													
17													
18													
10													
19													
1)													
	1		l				I						1

| Continued on Page 2 SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks: 1. Sampling not feasible due to flowing sand conditions encountered at bottom of 15.0'

CM	E
<b>Associates</b>	Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-324

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	F MATERIAL	062B-03-1223
Depth   Sample   Sample   (Ft.)   Type / Sample   Sample   (Feet)   No.   From   To   Rec. (in.)   Per 6 Inches   Continued from Page 1		
20   Continued from Page 1   21   22   23	% / some - 20 to 35% % / trace - 0 to 10%	SPT "N or RQD %
22 23		
22 23		
23		
24		
25 Auger refusal @ 25.9'		
Bottom of Boring @ 25.9'		+
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 C	orporate Drive	SI	IRSURFA	ACE EX	KPLORATION	Boring No.	B-	326
		IV			racuse, NY 13057				NG LOG	Page No.	1	of 2
	Asso	ociates	s, Inc.	Phone:	315-701-0522		1651	DUKI	NG LUG	Report No.	28062E	3-03-1223
Project	Name:	Micron	Campi	us, Clay,	New York					Date Started	09/	19/23
Client:		Rambo								Date Finished	09/	19/23
Location	n:	See Ex	ploratio	n Locati	on Plan					Surface Elev.	38	38.4'
					INVESTIGATIO	N			GROUNDWATER			
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.					
Driller:		Jason E	Ersing		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:		_	na, EIT	Other:			09/19/23	While Drilling	None Noted		
Drill Ri		CME I		,	Soil Sampler:	2" OD S	Split Barrel	09/19/23	Before Casing Removed	19.7	2	2.7
Type:	<b>5</b> .	Track			Hammer Wt:	140 lbs.	-	09/19/23	After Casing Removed	6.2		out
Rod Siz	թ•	NWJ			Hammer Fall:	30 in.		09/19/23	After Casing Removed	Caved @ 12.3		out
rtou SIZ			R∩RI	NC S	AMPLES	50 m.	VI		LASSIFICATION C			-
	LO	T		1110 57			V 1)	JUAL C	LASSIFICATION	T MATERIA	ıL	
Depth		_	Depth	Type /	Blows on	Depth of		coarse				SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium		% / some - 20 to 359		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 10%	<u>′</u> 0	RQD %
0	1A	0.0	0.5	SS/16	2-2-2-5				Matter (moist)		. —	4
	1B	0.5	2.0				Brown mot	tled SILT	, trace fine SAND (moi	st, medium stiff)		
1												
2	2	2.0	4.0	SS/24	6-7-7-7		Brown mot	ttled SILT	, little CLAY, trace fine	e SAND (moist,	stiff)	14
3												
4	3	4.0	6.0	SS/17	2-3-5-4		Similar as	above (we	et, stiff)			8
								`	,			
5												
6	4	6.0	8.0	SS/16	4-6-5-7		Similar as	above (we	et, stiff)			11
7												
8	5	8.0	10.0	SS/10	WH-3-3-6		Brown SIL	T, trace n	nf GRAVEL, trace CLA	Y (wet, medium	stiff)	6
9												
10												
11												
12												
13												
	6	13.0	15.0	SS/19	WH-1-1-2		Grey CLA	Y and SIL	T (wet, soft)			2
14									, ,			
15												
16												
17												
18	7	18.0	20.0	SS/7	WH-3-3-6		Grey SILT	and CLA	Y, some cmf SAND, lit	tle fine GRAVE	L (wet,	6
							medium sti		,		` '	
19								,				
	1			I	Ī	1	1					1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. Boring was offset about 20' North of staked location

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-326** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 Auger refusal @ 22.7' 23 See Remark 2 Bottom of Boring @ 22.7' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 2. Sampling not feasible due to flowing sand condition.

				6035 Co	orporate Drive	SI	JBSURFA	ACE EX	XPLORATION	Boring No.	B-	328
		IV	Ę		racuse, NY 13057				NG LOG	Page No.	1	of 2
	Asso	ciates	s, Inc.	Phone:	315-701-0522		11201	DOKI	NG LOG	Report No.	28062E	3-03-1223
<b>Project</b>	Name:	Micron	Campi	us, Clay,	New York	-				Date Started	09/	19/23
Client:		Rambo	11							Date Finished	09/	19/23
Location	n:	See Ex	ploratio	n Locati	on Plan					Surface Elev.	38	39.6'
					INVESTIGATIO	N			GROUNDWATER			
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.					
Driller:		Jason I			Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:		_	na. EIT	Other:			09/19/23	While Drilling	None	Noted	
Drill Ri		CME I		, 2.11	Soil Sampler:	2" OD S	Split Barrel	09/19/23	Before Casing Removed			aken due
Type:	<b>-</b> '	Track	30 33		Hammer Wt:	140 lbs.	-	09/19/23		to flowing sand co		
Rod Size	۵۰	NWJ			Hammer Fall:	30 in.		09/19/23	After Casing Removed	to nowing same of	onanions	
Kou Siz			DADI	NO C		30 III.	X710		_	 NE MATERIA	т	
	LU			ING SA	AMPLES		VI	SUAL C	LASSIFICATION C	JF MIATERIA	L	
Depth		_	Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		0% / some - 20 to 359		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 10%	⁄o	RQD %
0	1	0.0	2.0	SS/22	WH-3-4-5		Brown mot	tled SILT	, trace fine SAND, trace	e CLAY, trace		7
							ROOTS (n	noist, med	ium stiff)			
1												
2	2	2.0	4.0	SS/19	4-3-4-4		Pinkish Bro	own mottl	ed SILT, little CLAY, t	race fine SAND	(moist,	7
							medium sti		, ,		,	
3							inearani sti	11)				
3												
4	2	4.0	( 0	00/10	1 2 2 4		D:1-:-1. D	CII T	CIAV 4	- CAND (4		_
4	3	4.0	6.0	SS/18	1-2-3-4			own SIL I	, some CLAY, trace fin	e SAND (wet, m	ieaium	5
							stiff)					
5												
6	4	6.0	8.0	SS/17	2-3-4-7			tled SILT	, trace CLAY, trace fine	e SAND (wet, m	edium	7
							stiff)					
7												
8	5	8.0	10.0	SS/10	1-3-3-4		Grey CLA	Y and SIL	T (wet, medium stiff)			6
							1		,			
9												
10												
10												
11												
11												
12												
12												
12												
13	_	10.0	1 - ^	9011	********		g: ::					
	6	13.0	15.0	SS/15	WH-WH-1-2		Similar as	above (we	et, very soft)			1
14												
15												
16												
17												
1												
18	7	18.0	20.0	SS/20	WR-WH-1-1		Similar ac	ahove (we	et, very soft)			1
10	,	10.0	20.0	55/20	** 17- ** 11-1-1		Similar as	above (we	7., 101y 301t)			1
10												
19												
2.2							I					1

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-328** 2 of 2 Page No. **Report No.** 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		TEST BORENGE			28062B-03-1223
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLASS	IFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50 little - 10 to 2	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N or RQD %
20							Continued from Page 1 See Remark 1			
21										
22										
23										
24							Auger refusal @ 25.0'			
25							Bottom of Boring @ 25.0'			
26										
27										
28										
29										
30										
32										
33										
34										
35										
36										
37										
38										
39										
40	1									
41										
42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

1. Sampling not feasible due to flowing sand conditions between 23.0' to 25.0'. Grey cmf SAND noted in the split-spoon. Remarks:

	C	M	E		orporate Drive acuse, NY 13057	SU				ORATION	Boring No. Page No.	<b>B-328A</b>
	Asso	ciates	. Inc.		315-701-0522		TEST	BORI	NG I	LOG	Report No.	28062B-03-1223
Project 1			20	T Hone.	New York	<u> </u>					Date Started	10/12/23
Client:	· · · · · · · · · · · · · · · · · · ·	Rambo		as, ciay,	rew ronk						Date Finished	10/12/23
Location	1:			n Location	on Plan						Surface Elev.	389.6'
Location					INVESTIGATIO	N			GR	OUNDWATER		
Driller:		A. Lins			Casing:	3 ¼" ID	H.S.A.	-				
Driller:		J. Winl	ks		Casing Hammer:			Date		Time	Depth (Ft.)	Casing At (Ft.)
Inspecto	r:				Other:			10/12/23	,	While Drilling	11.6	14.0
Drill Rig	g:	CME 5	55		Soil Sampler:		plit Barrel	10/12/23		re Casing Removed	11.6	14
Type:		ATV			Hammer Wt:	140 lbs. 30 in.		10/12/23		r Casing Removed	None Noted	out
Rod Size								10/12/23		r Casing Removed	caved @ 5.2	out
	LOG OF BORING SAMPLES VISUAL CLASSIFICATION									SIFICATION C	F MATERIA	L
Depth			Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 35°	
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	0% / trace - 0 to 109	% RQD %
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14	1	14.0	16.0		Shelby Tube		<i>No Recove.</i> Grey SILT					
15							Ĭ			` '		
16	2	16.0	18.0		Shelby Tube		No Recove. Grey fine S					
17												
18							Bottom of	Boring @	18.0'			
19												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

1. No recovery with a 2" spoon; therefore a 3" spoon was utilized.

	C	V	Ę	East Syr	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION	Boring No. Page No.	1	335 of 2
	Asso	ociates	s, Inc.	Phone:	315-701-0522		11231	DOKI	NG	LUG	Report No.	28062B	-03-1223
Project	Name:	Micror	Camp	us, Clay,	New York	-					Date Started	09/	18/23
Client:		Rambo	oll								Date Finished	09/	18/23
Locatio	n:	See Ex	ploratio	n Locati	on Plan						Surface Elev.	39	4.8'
		ME	THO	DS OF	INVESTIGATIO	N			Gl	ROUNDWATER	OBSERVAT	IONS	
Driller:		Brian S	Swartz		Casing:	4 ¼" ID	H.S.A.	D /		m:	<b>D</b> (1 (F())	<i>a</i> .	A ( (T) ( )
Driller:		Jason I	Ersing		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect	or:	Astitwa	a Sharn	na, EIT	Other:			09/18/23		While Drilling	16.5	1	8.0
Drill Ri	g:	CME I	LC 55		Soil Sampler:	2" OD S	Split Barrel	09/18/23	Bef	ore Casing Removed	21.3	2	3.4
Type:		Track Hammer Wt:			140 lbs.		09/18/23	Af	ter Casing Removed	5.8	C	out	
Rod Siz	e:	NWJ			Hammer Fall:	30 in.		09/18/23	Af	ter Casing Removed	caved @ 13.3	C	out
	LO	GOF	BOR	ING SA	AMPLES		VI			SSIFICATION C		L	
- 1		T	Depth							1			anm 10 711
Depth	Sample	Sample (F		Type /	Blows on	Depth of		- coarse		1 25 + 50	M/ / 20 to 250	1/	SPT "N"
Scale (Feet)	No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			0% / some - 20 to 35° 20% / trace - 0 to 10°		or RQD %
0	1A	0.0	0.4	SS/20	WH-2-3-5	(Ft.)			raoni	c Matter (moist)	.0707 trace - 0 to 107	0	5
U	1B	0.0	2.0	33/20	W11-2-3-3	- —				ce fine SAND (wet.	madium stiff)		3
1	110	0.4	2.0				DIOWII IIIO	illeu SIL I	, па	ce fille SAND (wei,	, illedidili stili)		
1													
2	1	2.0	4.0	00/10	2 2 2 5		D CII	T 1'41 C	T A T	Z 4 C CAND	/ 1 t'	.00	
2	2	2.0	4.0	SS/18	2-3-3-5		Brown SIL	A, little C	LAY	Y, trace fine SAND	(wet, medium si	111)	6
2													
3													
	_												
4	3	4.0	6.0	SS/19	2-3-2-5		Brown SIL	T, trace C	CLA	Y (wet, medium stif	f)		5
5													
6	4	6.0	8.0	SS/18	5-8-6-6		Brown mo	ttled SILT	, tra	ce CLAY (wet, stiff	f)		14
7													
8	5	8.0	10.0	SS/10	1-2-3-5		Grey CLA	Y and SII	LT (v	vet, medium stiff)			5
9													
10													
11													
12													
13	6	13.0	15.0	SS/17	WH-WH-WH-WH		Grey cmf S	SAND, so	me n	nf GRAVEL, little	CLAY, trace SII	LT (wet,	0
							very loose)	)					
14							<u> </u>						
15													
16													
17													
18	7	18.0	20.0		21-27-24-30		Grey SILT	, some cn	nf SA	AND, some mf GRA	VEL, trace CL	AY (wet.	51
•							hard)	-		,	, <u> </u>	` -	
19							,						
-													
20	1			I		I	la	D 6					

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-335** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.0 24.1 12-33-100@1" Dark Grey decomposed SHALE, trace mf GRAVEL (wet) 100+ Auger refusal @ 23.4' Bottom of Boring @ 24.1' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	337 of 2
		ociates		I mone.	315-701-0522		TEST	DOM	1101		Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		30/23
Client:		Rambo									Date Finished		30/23
Locatio	n:		_	on Locati				ī			Surface Elev.	3.5'	
				DS OF	INVESTIGATIO				GR	OUNDWATER	R OBSERVAT	TONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:							_	
Inspecto		C) (E)			Other:	011 OD 6	111170 1	10/30/23		While Drilling	15.0		18.5
Drill Ri	g:	CME 5	50X		Soil Sampler:		Split Barrel	10/30/23		re Casing Removed	20.0		7.3
Гуре:		ATV Hammer Wt:			140 lbs.		10/30/23		er Casing Removed	7.7		out	
Rod Siz		AWJ	DOD	DIG G	Hammer Fall:	30 in.	X 71	10/30/23		er Casing Removed	caved @ 8.0		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION (	)F MATERIA	L	<del>-</del>
Depth Scale	Sample	_	e Depth	Type / Sample	Blows on Sampler	Depth of Change	11 1 2 2 2 2 2 2				0% / some - 20 to 35	%	SPT "N" or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°		RQD %
0	1	0.0	2.0	SS/12	1-1-2-2		Light Brow	vn SILT, t	trace f	ine SAND, trace I	ROOTS (moist,	soft)	3
1 2	2	2.0	4.0	SS/16	4-4-2-2		Light Brow	yn SILT. 1	little fi	ine GRAVEL, trac	ce fine SAND (r	noist.	6
3	_			22,10			medium sti			0101122, 1101	(.	,	
5	3	4.0	6.0	SS/12	2-8-7-8	Light Brown SILT, little cmf GRAVEL, little fine SAND (moist, very stiff)							15
6	4	6.0	8.0	SS/10	8-7-6-6	Similar as above (moist, stiff)							13
7 8 9	5	8.0	10.0	SS/17	5-6-10-14		Light Brown SILT, little mf GRAVEL, little mf SAND (mois stiff)						16
10													
11 12													
13	6	13.5	15.0	SS/12	23-28-30		Light Brow	vn/Grev S	ILT. 1	ittle cmf GRAVE	L. little fine SAI	ND	58
14					2 20 00		(moist, har	•	·-, •	<b></b>	,		
15 16													
17													
18 19	7	18.5	20.0	SS/17	21-41-36		Grey SILT	, little mf	GRA	VEL, little mf SA	ND (moist, hard	)	77
20								D 0					

### CME Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-337

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522						Report No. 28062B-03-1223							
					AMPLES		VISUAL CLASS	SIFICATION (		L			
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%		or		
20							Continued from Page 1						
21													
22													
23	8	23.5	25.0	SS/14	45-35-46		Similar as above (moist, ha	ard)		8:	1		
24													
25							Auger refusal @ 26.0'						
26	9	26.0	27.3	SS/0	77-74-100@3"		No Recovery			100	0+		
27							Bottom of Boring @ 27.3'						
28													
30													
31													
32													
33													
34													
35													
36													
37													
38													
40													
41													
42													
43													
44													
45	1												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive	SU			KPLORATION NG LOG	Boring No. Page No.		<b>339</b> of 2
	Ass	ociate	s, Inc.	Phone:	315-701-0522		1651	DUKI	NG LUG	Report No.	28062B	3-03-1223
Project I	Name:	Micror	n Camp	us, Clay,	, New York	-				Date Started	09/	18/23
Client:		Rambo	11							Date Finished	09/	18/23
Location	1:	See Ex	ploratio	n Locat	ion Plan					Surface Elev.	39	1.9'
			_		INVESTIGATIO	N			GROUNDWATER			
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.					
Driller:		Jason I	Ersing		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:		_	na. EIT	Other:			09/18/23	While Drilling	12.0	1	8.0
Drill Rig		CME I		, 211	Soil Sampler:	2" OD S	Split Barrel	09/18/23	Before Casing Removed	24.1		8.5
Type:	,•	Track	20 00		Hammer Wt:	140 lbs.	-	09/18/23	After Casing Removed	6.4	<b>.</b>	out
Rod Size		NWJ			Hammer Fall:	30 in.		09/18/23	After Casing Removed	caved @ 10.4		out
Rou Size			D∩D	INC S	AMPLES	J0 III.	VI		LASSIFICATION (	_		, at
1	LO			ING SA	AMII LES	+	V 1)	SUAL C	LASSIFICATION	JI MIATEKIA	L	I
Depth		_	e Depth	Type /	Blows on	Depth of		coarse				SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium		0% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)		(Ft.)		- fine		20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.4	SS/17	WH-WH-2-2	<b> </b>			rganic Matter (moist)			2
	1B	0.4	2.0				Brown mot	ttled SILT	, trace fine SAND (moi	st, soft)		
1												
2	2	2.0	4.0	SS/24	2-4-4-4		Brown mot	ttled SILT	, trace fine SAND, trace	e CLAY (wet, n	nedium	8
3							3111)					
4	3	4.0	6.0	SS/17	1-3-5-7		Brown SIL	T, trace f	ine SAND (wet, medium	m stiff)		8
5												
6	4	6.0	8.0	SS/15	6-5-3-4		Grey/Brow	n SILT aı	nd CLAY, trace fine SA	ND (wet, mediu	ım stiff)	8
7												
8	5	8.0	10.0	SS/15	2-3-4-5		Similar as	above (we	et, medium stiff)			7
9												
10												
11												
12												
13	6	13.0	15.0	SS/16	1-1-1-1		Grey CLA	Y and SIL	LT (wet, soft)			2
14												
15												
16												
17												
18	7	18.0	20.0	SS/12	8-9-10-9		Grey SILT (wet, very		nf SAND, trace fine GR	AVEL, trace CI	LAY	19
19												

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-339

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522						Report No. 28062B-03-									
					AMPLES		VISUAL CLAS	SIFICATION (		L						
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%							
20	110.	110111	10	rcc. (III.)	1 of 0 mones	(11.)	Continued from Page 1	11110 - 10 10 2	20707 Hacc - 0 to 107	· RQD						
21																
22																
23	8	23.0	25.0	SS/16	14-18-30-40		Dark Grey SILT, some cmf SAND, trace fine GRAVEL, trace CLAY (wet, hard)									
24																
25																
26																
27																
28	9	28.0	28.1	SS/1	100@1"		ROCK chips and fragmen Auger refusal @ 28.5'	ts, trace SILT (we	t)	100-						
29							Bottom of Boring @ 28.5'									
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																
41 42																
42																
44																
45																

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		<b>341</b> of 2
	Asso	ciate	s, Inc.	•	315-701-0522		TEST	BORI	NG I	LOG	Report No.		3-03-1223
Project	Name:	Micror	Camp		New York	<u> </u>					Date Started		18/23
Client:	- 100	Rambo		,,							Date Finished		18/23
Locatio	n:	See Ex	ploratio	on Locati	on Plan						Surface Elev.		1.0'
			_		INVESTIGATIO	N			GR	OUNDWATER			
Driller:		Brian S			Casing:	4 ¼" ID	H.S.A.	_					
Driller:		Jason I	Ersing		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	Astitw	a Sharn	na, EIT	Other:			09/18/23		While Drilling	2.9	1	8.0
Drill Ri	g:	CME I	LC 55		Soil Sampler:	2" OD S	Split Barrel	09/18/23	Befo	ore Casing Removed	2.9	2	2.5
Type:		Track			Hammer Wt:	140 lbs.		09/18/23	Afte	er Casing Removed	5.0	(	out
Rod Siz	e:	NWJ			Hammer Fall:	30 in. 09/18/23 After Casing Removed					caved @ 19.0	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION O	OF MATERIA	L	
Danil			e Depth										SPT "N"
Depth Scale	Sample	Sample (F		Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and = 35 to 50	1% / some - 20 to 35%	/o	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1A	0.0	0.5	SS/20	WH-1-3-5	(= 1.)	Topsoil and		Matt				4
	1B	0.5	2.0							e fine SAND (moi	st, medium stiff)		1
1									,	(	,		
2	2	2.0	4.0	SS/24	4-5-5-4		Similar as	above (we	et, stif	ff)			10
										,			
3													
4	3	4.0	6.0	SS/15	WH-3-5-5		Brown SIL	T, trace f	ine S	AND, trace CLAY	(wet, stiff)		8
								,			(,)		
5													
6	4	6.0	8.0	SS/18	3-4-5-7		Brown/Gre	y SILT, s	ome (	CLAY, trace fine S	SAND (wet, stiff	)	9
								•				,	
7													
8	5	8.0	10.0	SS/12	WH-2-3-5		Grey CLA	Y and SII	T (w	et, medium stiff)			5
									`	,			
9													
10													
11													
12													
13	6	13.0	15.0	SS/16	1-2-2-3		Similar as	above (we	et, me	edium stiff)			4
14													
15													
16													
17													
4.0	_	46.5		95.5	40.0 - 40			0		1 0-:	arr —	A	
18	7	18.0	20.0	SS/9	12-8-7-10		-			and cmf SAND, t	race SILT, trace	CLAY	15
4.0							(wet, medi	um compa	act)				
19													
20							L						

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-341** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 21 22 Auger refusal @ 22.5' 8 100+ 22.5 22.5 SS/0 100@0" No Recovery. See Remark 1 23 Bottom of Boring @ 22.5' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

1. Grey ROCK chips and fragments noted on spoon top Remarks:

					orporate Drive	SI	J <b>BSURF</b>	ACE EX	PL	ORATION	Boring No.		346
		V			racuse, NY 13057			BORI			Page No.		of 2
		ociates	No.	1 momen	315-701-0522		11201	DOM	10	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		28/23
Client:		Rambo									Date Finished		28/23
Locatio	n:			n Locati		<b>.</b>	1		- CT		Surface Elev.		3.9'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		Gary R			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto		Chris C		na, EIT	Casing Hammer: Other:			04/28/23		While Drilling	None Noted		
Drill Ri		CME 5		ia, EII	Soil Sampler:	2" OD S	Split Barrel	04/28/23		ore Casing Removed	19.1	2	1.7
Type:	g.	Track			Hammer Wt:	140 lbs.	-	04/28/23		er Casing Removed	4.2		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/28/23		er Casing Removed	caved @ 4.5		out
itou Siz			RORI	ING S	AMPLES	J 0 III.	VI			SSIFICATION C	)		, (1)
		T				<del> </del>					T WATERIA		1
Depth	Sample	Sample (F	Depth	Type /	Blows on	Depth of		coarse		and 25 to 50	0/ / 2000 20 40 250	1/	SPT "N"
Scale (Feet)	No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35° 0% / trace - 0 to 10°		or RQD %
0	1A	0.0	0.5	SS/15		(1 (.)			Mat	erial (moist)	0707 Hace 0 to 107	•	2
	1B	0.5	2.0			1				AND, trace CLAY	(moist, soft)		1
1								,		,	, ,		
2	2	2.0	4.0	SS/18	3-3-3-3		Brown SIL	T, trace C	LAY	Y (moist, medium st	tiff)		6
3													
4	3	4.0	6.0	SS/24	3-2-3-4		Same as ab	ove (wet,	med	lium stiff)			5
5													
,			0.0	00/14									1.1
6	4	6.0	8.0	SS/14	6-6-5-6		Same as ab	ove (wet,	med	ium stiff)			11
7													
7													
8	5	8.0	10.0	SS/24	5-7-6-6		Brown SII	T trace (	7 A T	Y, trace fine SAND	(moist stiff)		13
0	3	0.0	10.0	33/24	3-7-0-0		DIOWII SIL	i, nace C	LAI	i, trace fille SAND	, (moist, stiii)		13
9													
10													
- 0													
11													
12													
	6	13.5	15.0	SS/13	8-7-5		Grey cmf S	SAND, so	me S	ILT, trace mf GRA	VEL (wet, med	ium	12
13							compact)				•		
14													
15													
16													
1.5													
17													
10													
18		10.5	20.0	00/4	12 12 12		C 011 T	1	DAT	IEI CCAS	AID (maxi t	-4:60	26
10	7	18.5	20.0	SS/4	12-13-13		Gray SILT	and mt G	ĸΑ۱	VEL, some cmf SA	ND (moist, very	stiff)	26
19													
20	ł						Continued	on Dogo 2					

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-346** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 Augered hard @ 21.3' 21 8 No Recove<u>ry. See Remark 1</u> 21.7 21.7 SS/0 100@ 0" 100 +22 Bottom of Boring @ 21.7' 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

1. Grey ROCK chips and fragments noted on spoon tip Remarks:

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		350 of 1
	Ass	ociate	s, Inc.	•	315-701-0522		TEST	BORI	NG I	LUG	Report No.		-03-1223
Project	Name:	Micro	ı Camp		New York						Date Started		14/23
Client:	- tunic.	Rambo		us, ciuj,	TOW TOTA						Date Finished		14/23
Locatio	n·			on Locati	on Plan						Surface Elev.		1.4'
10cau	***		_		INVESTIGATIO	N			GR	OUNDWATER			
Driller:		Brian S		DS OF	Casing:	4 ¼" ID	HSA		J.	OUNDWATER	ODSERVAI	10115	
Driller:		Jason 1			Casing Hammer:	174 110	11.5.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			_	na, EIT	Other:			09/14/23	,	While Drilling	12	1	18
Drill Ri		CME I		.iu, 211	Soil Sampler:	2" OD S	Split Barrel	09/14/23		re Casing Removed	9.5		8.3
Type:	8.	Track	2000		Hammer Wt:	140 lbs.	-	09/14/23		er Casing Removed	5.1		out
Rod Siz	e:	NWJ			Hammer Fall:	30 in.		09/14/23		er Casing Removed	caved @ 16.2		out
1104 512			ROR	ING S	AMPLES	1	VI			SIFICATION (	_		
				110 57					LAS	SIFICATION	or WIATEKIA		
Depth	١		e Depth (t.)	Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample	From	To	Sample	Sampler Per 6 Inches	Change		medium - fine			0% / some - 20 to 35		or RQD %
(Feet)	No.	0.0	2.0	Rec. (in.) SS/12	WH-1-3-4	(Ft.)			ino S /	AND, trace ROOT	20% / trace - 0 to 109		4
U	1	0.0	2.0	33/12	W11-1-3- <del>4</del>		DIOWII SIL	1, Hacc 1	inc Sr	AND, Hace ROOT	5 (moist, mediu	iii stiii)	_
1													
1													
2	2	2.0	4.0	SS/16	8-5-5-4		Brown SII	T trace (	LAY	, trace fine SAND	(wet_stiff)		10
		2.0	7.0	55/10	0-3-3-4		DIOWII SIL	1, 11400	<i></i>	, trace time 57 trab	(wet, still)		10
3													
4	3	4.0	6.0	SS/15	2-2-3-4		Brown SII	T little C	ΊΔΥ	, trace cmf SAND	(wet medium s	tiff)	5
	3	7.0	0.0	55/15	2-2-3-4		DIOWII SIL	1, IIIIC C	LAI	, trace cilii SAND	(wet, illedium s	1111)	
5	1												
6	4	6.0	8.0	SS/13	3-4-6-4		Brown SII	T some (	TAV	, trace mf SAND	(wet stiff)		10
	-	0.0	0.0	55/15	3-4-0-4		DIOWII SIL	i, some (		, trace iii 571115	(wei, still)		10
7													
,													
8	5	8.0	10.0	SS/15	2-3-4-3		Brown mot	tled SILT	som	e CLAY, trace fin	e SAND (wet n	nedium	7
		0.0	10.0	55/15	2313		stiff)	ined SIL1	, 50111	ie CEIII, titee iiii	e shirth (wet, ii	icaram	,
9							Juli )						
10	1												
10													
11													
12													
13	6	13.0	15.0	SS/9	WH-3-2-3		Grey CLA	Y, some S	SILT,	little cmf SAND, t	race fine GRAV	/EL	5
							(wet, medi		,	,			
14							[`	,					
15	1												
16													
17													
18	7	18.0	18.3	SS/3	100@3"		Grey ROC	K chips a	nd fra	gments, little SIL7	Γ, trace cmf SAN	ND,	100+
							trace mf G	-					
19							Auger refu						
	]						Bottom of	Boring @	18.5'		<u></u>		
20	1	1	1	1	Ī	1	1						I

					orporate Drive	SI	J <b>BS</b> URF	ACE EX	PLO	ORATION	Boring No.		361		
		V			racuse, NY 13057			BORI			Page No.		of 2		
		ociate	2000000	I Hone.	315-701-0522		11231	DOM	101	LOG	Report No.		3-03-1223		
Project	Name:			us, Clay,	New York						Date Started		12/23		
Client:		Rambo									Date Finished		12/23		
Locatio	n:			on Locati		NNT.			CD		Surface Elev.		95.1'		
D :				DS OF	INVESTIGATIO	3 ¼" ID	TI C A		GR	COUNDWATER	OBSERVAT	IONS			
Driller: Driller:		A. Lin J. Win			Casing: Casing Hammer:	3 ¼" ID	н.5.А.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)		
Inspect		J. WIII	KS		Other:			10/12/23		While Drilling	14.2	1	3.5		
Drill Ri		CME 5	55		Soil Sampler:	2" OD S	Split Barrel	10/12/23		ore Casing Removed	19.2		6.5		
Type:		ATV			Hammer Wt:	140 lbs.	-	10/12/23		er Casing Removed	10.5	(	out		
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		10/12/23	Afte	er Casing Removed	caved @ 11.7	(	out		
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION (	F MATERIA	L			
Depth		Sample	e Depth	T/	Blows on	Donath of	c -	coarse					SPT "N"		
Scale	Sample	_	t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or		
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°	<b>%</b>	RQD %		
0	1	0.0	2.0	SS/15	5-5-7-7		Brown mf	SAND, li	tle S	ILT (moist, mediu	n compact)		12		
1															
2	2	2.0	4.0	SS/17	4-5-5-7		Brown SII	T some f	ine S	AND trace CLAV	(moist stiff)		10		
		2.0	7.0	55/1/	4-3-3-7		DIOWII SIL	(moist, stiff)		10					
3						Brown SILT, some fine SAND, trace CLAY (moist, stiff)									
4	3	4.0	6.0	SS/20	4-5-5-5		Brown fine	SAND, s	ome	SILT (wet, stiff)			10		
5															
_								~	_						
6	4	6.0	8.0	SS/19	5-5-7-4		Brown SIL	T, little fi	ne SA	AND, trace CLAY	(wet, stiff)		12		
7															
,															
8	5A	8.0	9.5		3-4-3-7		Brown cm	f SAND. 1	ittle r	nf GRAVEL, little	SILT (wet, med	lium	7		
	011	0.0	,		0.0,		compact)			0141 . 22,	(,				
9							Augers gra	velly begi	inning	g @ 9.5'					
	5B	9.5	10.0				Brown cm	f SAND,	little	mf GRAVEL, littl	e SILT (wet)				
10															
11															
12															
12															
13															
	6	13.5	15.0	SS/10	7-7-7		Brown cm	f SAND, s	ome	mf GRAVEL, trac	e SILT (wet, me	edium	14		
14							compact)	, -		,	, ,				
15															
16															
17							1,100,000	ua dance 1		ming @ 17.01					
17							Augers mo	re aense t	egini	ning @ 17.0'					
18															
10	7	18.5	20.0	SS/11	23-33-36	Brown/Grey SILT, some mf SAND (wet, hard)						69			
19	_ ′	10.5	20.0		25 55 50	Brown/Grey SIL1, Some in SAND (wet, hard)									
20	1						Continued	on Page 7							

#### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-361

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone: 3	315-701-0522		TEST BORING LO	<b>Report No.</b> 28062	B-03-1223	
					AMPLES		VISUAL CLASS	IFICATION O		-
Depth Scale (Feet)	Sample No.	Sample	e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50'	% / some - 20 to 35% 0% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1			
21 22										
22										
23										
24	8	23.5	24.3	SS/5	33-100@3"		Grey SILT and ROCK fragi	ments, little cmf (	GRAVEL (moist, hard)	100+
25										
26	9	26.5	26.5	SS/0	100@0"	26.5'	Auger refusal @ 26.5' No Recovery			100+
27							Bottom of Boring @ 26.5'			
28										
29										
30										
31										
32										
33										
34										
35	1									
36										
37										
38										
39										
40	1									
41										
42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		363 of 2	
	Ass	ociate	s, Inc.	•	315-701-0522		TEST	BORI	NG I	LOG	Report No.		3-03-1223	
Project	Name:	Micron	ı Camp		New York						Date Started		01/23	
Client:	- 100	Rambo		,,							Date Finished		01/23	
Locatio	n:	See Ex	ploration	on Locati	on Plan						Surface Elev.	39	95.8'	
		•	_		INVESTIGATIO	N			GR	OUNDWATER				
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	_						
Driller:		R. Cas	atelli		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	g At (Ft.)	
Inspect	or:				Other:			11/01/23	,	While Drilling	21.0	2	2.5	
Drill Ri	ig:	CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	11/01/23	Befor	re Casing Removed	21.0	2	2.5	
Type:		ATV			Hammer Wt:	140 lbs.		11/01/23	Afte	r Casing Removed	10.3	(	out	
Rod Siz	ze:	AWJ			Hammer Fall:	30 in.		11/01/23	Afte	r Casing Removed	caved @ 13.5			
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION (	OF MATERIA	L		
Depth		Sample	e Depth	m /	Blows on	5 1 0	C.	coarse					SPT "N"	
Scale	Sample	_	7t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or	
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	20% / trace - 0 to 10°		RQD %	
0	1A	0.0	1.0	SS/16	1-1-5-7		Topsoil an	d Organic	Mate	rial (moist)			6	
1	1B	1.0	2.0				Light Brow	vn/Grey S	race fine SAND (	moist, medium s	tiff)			
2	2	2.0	4.0	SS/20	6-7-8-8		Light Brow	vn/Grey S	race fine SAND (1	moist, very stiff)	)	15		
3						Light Brown/Grey SILT, trace fine SAND (moist, very stiff)								
4	3	4.0	6.0	SS/18	3-2-3-2		Light Brow	vn SILT, 1	trace f	ine SAND (wet, n	nedium stiff)		5	
5														
6	4	6.0	8.0	SS/18	3-3-4-4		Similar as	above (mo	oist, m	nedium stiff)			7	
7														
8	5	8.0	10.0	SS/16	4-5-5-7		Light Brow		SILT, 1	ittle cmf GRAVE	L, little cmf SA	ND	10	
9							(inoist, stil	-)						
10														
11														
12														
13														
14	6	13.5	15.0	SS/15	5-2-5		Grey SILT stiff)	, little mf	'GRA'	VEL, little fine SA	AND (moist, med	dium	7	
15	1													
16														
17														
18														
19	7	18.5	20.0	SS/16	24-21-36		Dark Grey SILT and highly weathered ROCK fragments (moist, hard)							
20	4													

CM	E
Associates,	Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-363

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 Auger refusal @ 22.5' 23 Bottom of Boring @ 22.5' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SI	J <b>BSURF</b>	ACE EX	EPL(	ORATION	Boring No.		364
					racuse, NY 13057			BORI			Page No.		of 2
		ociates	S. Land	i none.	315-701-0522		11251	DOM	.10		Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		12/23
Client:		Rambo									Date Finished		12/23
Location	n:			on Locati		<b>. .</b>	1		~ T		Surface Elev.		5.8'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	TONS	
Driller:		A. Lin			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		J. Win	KS		Casing Hammer: Other:			10/12/23		Willia Dallia	20.0	2	2.8
Inspecto Drill Ri		CME 5	50Y		Soil Sampler:	2" OD S	Split Barrel	10/12/23		While Drilling ore Casing Removed	20.0		2.8
Type:	ğ•	ATV	3071		Hammer Wt:	140 lbs.	-	10/12/23		er Casing Removed	None Noted		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @ 9.9		out
rtou SIE			ROR	ING S	AMPLES	]	VI			SIFICATION C	)		-
		T				+			11110		or white Extra		1
Depth	Camala	Sample (F	e Depth	Type /	Blows on Sampler	Depth of		coarse		and 25 to 50	10/ / sama 20 ta 25	0/	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		medium - fine			0% / some - 20 to 35 20% / trace - 0 to 109		or RQD %
0	1	0.0	2.0	SS/17	1-2-7-9	(1 t.)			ne S	AND (moist, stiff)	.0707 trace 0 to 10.		9
								,		, , ,			
1													
2	2	2.0	4.0	SS/21	5-6-5-5		Brown SIL	T, some f	ine S	AND, trace CLAY	(wet, stiff)		11
3													
	_							_	a = .				
4	3	4.0	6.0	SS/12	4-4-6-6		Brown SIL	T, some r	nf SA	AND (wet, stiff)			10
	ł												
5													
6	4	6.0	8.0	SS/19	4-7-8-8		Drown fine	SAND 1	;++1 ₀ 9	SILT (wet, medium	a compact)		15
0	_	0.0	0.0	33/19	4-7-6-6		DIOWII IIIIC	SAND, I	IIIIC i	SILI (wet, illediuli	i compact)		13
7													
,													
8	5	8.0	10.0	SS/17	2-2-3-4		Brown cmf	f SAND, 1	ittle 1	fine GRAVEL, littl	e SILT (wet, loo	ose)	5
								Í		•		,	
9													
10													
11													
10													
12													
13													
1.5	6	13.5	15.0	SS/11	3-3-8		Black/Grey	/SILT so	me c	mf SAND, trace m	f GRAVEL (mc	oist	11
14	0	13.3	15.0	00/11	3-3-6		stiff)	, 5111, 50	,111C C	iii ortivo, nace ili	TOWAY DE (IIIC	,151,	11
1 1							ROCK frag	ements no	ted				
15							110 011 ji ug	,					
16													
17													
18		l								_			
10	7	18.5	20.0	SS/11	7-28-43		Grey SILT	, some RO	OCK :	fragments, little mi	f SAND (moist,	hard)	71
19													
20							Continued	on Dogo 1	,				

## Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-364

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 VISUAL CLASSIFICATION OF MATERIAL LOG OF BORING SAMPLES Sample Depth SPT "N" Depth Blows on Depth of c - coarse Type / Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 21 22 8 22.0 22.8 SS/7 77-100@4" Grey SILT and ROCK fragments, little cmf SAND (wet, hard) 100 +Auger refusal @ 22.8' 23 Bottom of Boring @ 22.8' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	F		orporate Drive	SU	JBSURFA	ACE EX	<b>KPLORATION</b>	Boring No.		366
	Ace	ociates	Inc	•	racuse, NY 13057		TEST	BORI	NG LOG	Page No.		of 2
			The same of	i none.	315-701-0522					Report No.		3-03-1223
Project 1	Name:			us, Clay,	New York					Date Started		16/23
Client:		Rambo		T	DI.					Date Finished		16/23
Location	1:		_	n Locati		NT.			CDOUNDWATER	Surface Elev.		3.0'
Driller:		G. Ricl		DS OF	INVESTIGATIO		II C A		GROUNDWATER	OBSERVAI	IONS	
Driller:		R. Cas			Casing: Casing Hammer:	3 ¼" ID	н.5.А.	Date	Time	Depth (Ft.)	Casing	At (Ft.)
ormer: Inspecto		R. Cas	atem		Other:	NQ-Cor	••	10/16/23	While Drilling	None Noted	1	7.3
Drill Rig		CME 5	50V		Soil Sampler:	-	Split Barrel	10/16/23	Before Casing Removed	None Noted		7.3
оты қа Гуре:	<b>خ</b> ٠	ATV	)JUA		Hammer Wt:	140 lbs.	-	10/16/23	After Casing Removed	None Noted		out
rype. Rod Sizo	۵٠	AWJ			Hammer Fall:	30 in.		10/16/23	After Casing Removed	caved @		out
Nou Sizi			P∩DI	INC S	AMPLES	30 III.	VI		LASSIFICATION (	)		out
1	LO	1		ING SE	AMILES		V 1.	SUALC	LASSIFICATION	JF WIATEKIA	L	1
Depth			e Depth	Type /	Blows on	Depth of		coarse				SPT "N
Scale	Sample	(F		Sample	Sampler	Change		medium		0% / some - 20 to 359		or
(Feet)	No.	From 0.0	To 1.0	Rec. (in.) SS/14	Per 6 Inches 2-2-4-3	(Ft.)		- fine	Material (moist)	20% / trace - 0 to 10%	0	RQD %
U	IΑ	0.0	1.0	33/14	2-2-4-3		1 opson and	a Organic	iviateriai (moist)			0
1	1B	1.0	2.0			<b> </b>	Light Brow	m SII T +	race fine SAND, trace (	Organic Material		1
1	ıD	1.0	2.0				(moist, me			organic material	L	
2	2	2.0	4.0	SS/16	3-7-6-8		,		) ine SAND, trace mf GR	AVEL trace Or	ganic	13
4	4	2.0	7.0	55/10	3-7-0-0		Material (n		-	arvee, nace Or	game	13
3							iviaiciiai (I	110131, 31111	·)			
J												
4	3	4.0	6.0	SS/13	2-2-3-2		Brown CII	T little C	LAY, little cmf GRAV	FI trace fine S/	ND	5
4	3	4.0	0.0	33/13	2-2-3-2		(moist, med			LL, Have Tille SF	מאט	
5							(moist, me	aiuiii Sull	)			
J												
6	4	6.0	8.0	SS/18	3-3-6-11		Brown CII	T little e	mf GRAVEL, trace fine	SAND trace	ΙΔΥ	9
U	7	0.0	0.0	55/10	J-J-U-11		(moist, stif		im OKA VEL, HACE IIIIC	JAND, HACE C	LAI	"
7							(moist, still	1)				
/												
8	5	8.0	10.0	SS/24	8-16-31-40		Brown/Gra	SII T 1	ittle cmf GRAVEL, littl	e weathered RO	CK	47
U	J	0.0	10.0	55/2 <del>4</del>	0-10- <i>3</i> 1 <b>-4</b> 0				SAND (moist, hard)	c weathered RO	<b>○1</b> ×	•
9							magnicino,	nace IIII	ornio (moist, natu)			
,												
10												
10												
11												
							Augered ha	ard begin	ning @ 11.7'			
12								ooguu	·····o 😊 • • • · · · /			
13												
-												
14	6	14.0	16.0	SS/3	30-60-66-45		Grey weath	nered RO	CK chips and fragments	(moist)		126
	-								18	` /		
15												
16												
-												
17	7	17.2	17.3	SS/1	100@1"		Grey weath	nered SHA	ALE fragments, some SI	LT (moist)		100+
									fusal @ 17.3'. Set up to	, ,		
18	R1	17.3	22.3	C/43					IALE with interbedded		ayers	30%
-									, highly weathered, lami			
19									hered and highly broker			
-							and 19.8' to		<i>8 - y 100.</i>	<u> </u>		
20							Continued		)			

#### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-366

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 Recovery:  $43''/60'' = 72\% \mid RQD: 18''/60'' = 30\%$ 3 Pieces, 24" Chips and fragments 21 2 min/ft, no water loss 22 Coring conducted in 4th gear, 1700 rpm, 500 psi down pressure. Bottom of Boring @ 22.3' 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 Co	orporate Drive	SU	JBSURFA	ACE EX	PLO	ORATION	Boring No.		370
					racuse, NY 13057			BORI			Page No.		of 1
		ociates	S DAY		315-701-0522		1201	DOM	10.		Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		01/23
Client:		Rambo		т .:	DI .						Date Finished		01/23
Location	n:			n Locati	INVESTIGATIO	N			CD	OUNDWATER	Surface Elev.		93.7'
Driller:		B. Flet		DS OF	Casing:	3 ¼" ID	HSA		GIV	CONDWATER	OBSERVAT	10115	
Driller:		R. Casa			Casing Hammer:	3 /4 ID	11.0.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:				Other:			11/01/23		While Drilling	None Noted	1	5.4
Drill Ri	g:	CME 5	50X		Soil Sampler:	2" OD S	plit Barrel	11/01/23	Befo	re Casing Removed	None Noted	1	5.4
Type:		ATV			Hammer Wt:	140 lbs.		11/01/23		er Casing Removed	None Noted	(	out
Rod Siz		AWJ			Hammer Fall:	30 in.		11/01/23		er Casing Removed	caved @ 12.0		out
	LO	G OF	BOR	ING SA	MPLES		VIS	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth			Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 359		or
(Feet)	No.	From 0.0	To 1.0	Rec. (in.) SS/14	Per 6 Inches 1-2-4-9	(Ft.)		- fine	Moto	erial (moist)	0% / trace - 0 to 10%	6	RQD %
U	1A	0.0	1.0	33/14	1-2-4-9		Topson and	i Organic	Iviau	mai (moist)			"
1	1B	1.0	2.0				Light Brow	n SILT, t	race 1	fine SAND (moist,	medium stiff)		
2	2	2.0	4.0	SS/20	6-7-6-7		Light Brow	n SILT, t	race i	fine SAND (moist,	stiff)		13
3													
4	3	4.0	6.0	SS/18	2-2-3-3		Similar as a	above (mo	oist, n	nedium stiff)			5
5								`		,			
3													
6	4	6.0	8.0	SS/19	2-3-5-7		Brown/Gre stiff)	y SILT, l	ttle c	mf GRAVEL, little	e fine SAND (m	oist,	8
7							,						
8	5	8.0	10.0	SS/18	6-9-9-9			y SILT, s	ome (	emf GRAVEL, littl	le fine SAND (n	noist,	18
9							very stiff)						
10							See Remari	k I					
11													
12													
13						<u> </u>							
14	6	13.5	15.0	SS/12	9-7-38		Dark Grey/ little SILT			RAVEL and weathert)	ered ROCK frag	ments,	45
15							Auger refus Bottom of I	sal @ 15.	4'	•			
							DOMOIII OI I	Doring (0)	1.5.7				
16													
17													
18													
19													
20													1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

1. Installed well at depth of 10.0' with 5.0' screen and 5.0' riser.

		M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	KPLC	DRATION	Boring No.		380
	Acc	ciates	Inc		racuse, NY 13057		TEST	BORI	NG I	.OG	Page No.		of 1
			******	Thone.	315-701-0522		1201				Report No.		-03-1223
Project 1	Name:			us, Clay,	New York						Date Started		3/23
Client:		Rambo									Date Finished		3/23
Location	n:			n Locati							Surface Elev.		1.0'
		ME	THO	DS OF	INVESTIGATIO				GR	OUNDWATER	OBSERVAT	IONS	
Driller:		A. Lins	struth		Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Cosing	At (Ft.)
Driller:		J. Win	ks		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:				Other:			10/13/23	1	While Drilling	16.5	19	9.0
Drill Rig	g:	CME 5	55		Soil Sampler:	2" OD S	Split Barrel	10/13/23	Befor	e Casing Removed	16.5	19	9.0
Type:		ATV			Hammer Wt:	140 lbs.		10/13/23	After	r Casing Removed	None Noted	О	ut
Rod Size	e:	AWJ			Hammer Fall:	30 in.		10/13/23	After	r Casing Removed	caved @ 9.5	О	ut
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASS	SIFICATION C	OF MATERIA	L	
Danil		Sample	Depth		Dlarra an								SPT "N"
Depth Scale	Sample	(F		Type / Sample	Blows on Sampler	Depth of		coarse medium		and - 35 to 50	1% / some - 20 to 35%	2/0	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			10% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/17	1-2-2-4	(* ")			nf SAN	ND (moist, mediur			4
Ü	•	0.0	2.0	55/17	1221		Brown SIL	1, 11000 11	11 57 11	(Incist, incura	ii stiii)		
1													
1													
2	2	2.0	4.0	SS/19	5-7-8-9		Brown SII	T little fi	ine SA	ND (moist, very s	etiff		15
2	2	2.0	7.0	55/17	3-7-0-9		Diown SiL	1, 111110 11	1110 571	in the (moist, very s	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		13
3													
3													
4	3	4.0	6.0	SS/1	4-5-7-7		Drossin omi	CDAVE	T tro	ce cmf SAND, trac	oo CII T		12
4	3	4.0	0.0	33/1	4-3-7-7		(moist, me			e ciii sand, iia	CE SIL I		12
5							(moist, me	alulli coli	npact)				
3													
6	4	6.0	8.0	SS/19	5-4-4-5		Dearyn CII	T and fin	~ CAN	ID (wet, stiff)			8
O	4	0.0	8.0	33/19	3-4-4-3		DIOWII SIL	and mi	e san	iD (wei, siiii)			0
7													
/													
8	5	8.0	10.0	SS/17	3-9-5-5		Drown fine	SAND	nd SII	LT (wet, medium o	nompost)		14
0	3	8.0	10.0	33/1/	3-9-3-3		DIOWII IIIIC	SAND a	iliu SII	Zi (wei, illediulli t	compact)		14
9													
9													
10													
10													
11													
11													
12													
12													
13													
13	6	13.5	15.0	SS/8	1-3-5		Grey/Bross	n cmf S A	ND a	ome SILT, little n	of GRAVEL (wo	et loose)	8
14	U	13.3	13.0	33/6	1-3-3		Augers gra				II OKAVEL (WE	., 100se)	O
14							Augers gra	veny veg	inning	w 14.0			
15													
13													
16													
10													
17													
17													
10													
18	7	10 5	10.0	00/5	44 100@0"		Cma CII T	and DOC	N C	gments (moist, har	٠.4)		100+
	7	18.5	19.0	SS/5	44-100@0"	1	Jurey SILT	and ROC	K frac	iments (moist har	·a)		100+
10					_	10.01				ginents (moist, nai	/		
19					<u> </u>	19.0'	Auger reful Bottom of	sal @ 19.	0'	gments (moist, nai			

	C	M	F		orporate Drive	SU	JBSURFA	ACE EX	(PL	ORATION	Boring No.		382
	Assi	ciates	Inc		racuse, NY 13057		TEST	BORI	NG 1	LOG	Page No.		of 1
			S DAY	i none.	315-701-0522						Report No.		-03-1223
Project 1 Client:	Name:	Rambo		us, Clay,	New York						Date Started Date Finished		3/23
				n Locati	an Dlan						Surface Elev.		6.7'
Location	1.				INVESTIGATIO	N			CR	OUNDWATER			0.7
Driller:		A. Lins			Casing:	3 ¼" ID	H.S.A.						
Driller:		J. Winl			Casing Hammer:	<i>5</i> /4 12	11.5.1.1.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:				Other:			10/13/23		While Drilling	13.5	13	3.5
Drill Rig	g:	CME 5	55		Soil Sampler:	2" OD S	Split Barrel	10/13/23		re Casing Removed	15.9	18	3.4
Type:		ATV			Hammer Wt:	140 lbs.		10/13/23		er Casing Removed	6.2	0	ut
Rod Size		AWJ			Hammer Fall:	30 in.		10/13/23		er Casing Removed	caved @ 7.1		
	LO	ı		ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	)F MATERIA	L	
Depth		Sample		Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 359		or
(Feet)	No. 1	From 0.0	To 2.0	Rec. (in.) SS/16	Per 6 Inches 1-1-5-3	(Ft.)		- fine T_some f	ina S	AND (wet, mediur	20% / trace - 0 to 10%	⁰	RQD %
U	1	0.0	2.0	55/10	1-1-5-5		DIOWII SIL	1, 301110 1	inc 5	AND (wei, mediai	ii stiii)		O
1													
2	2	2.0	4.0	SS/19	3-4-4-3		Similar as	above (we	et, stif	ef)			8
3													
4	2	4.0	( 0	00/11	2 2 2 2		G: '1	1 (		1: (:00			(
4	3	4.0	6.0	SS/11	3-3-3-2		Similar as	above (we	et, me	dium stiff)			6
5													
3													
6	4A	6.0	7.5	SS/15	3-2-3-13		Similar as	above (we	et, me	dium stiff)			5
7						<b> </b>	<b> </b>						
0	4B	7.5	8.0	~~ /4 <b>-</b>	40.40.40.0					SILT, little mf GR	` /		
8	5A	8.0	9.5	SS/15	10-12-13-8			SAND, I	little i	nf GRAVEL, trace	e SILT (moist, m	edium	25
9							compact)						
9	5B	9.5	10.0				Grev cmf S	SAND and	1 mf (	GRAVEL, trace SI	LT (moist)		
10	JB	7.5	10.0				Grey enn s	, in the unit		Sidivez, nace si	21 (moist)		
11													
12													
13													
13	6A	13.5	14.5	SS/11	18-23-93		Grev cmf S	SAND so	me Sl	ILT, little mf GRA	VEL (wet verv	compact	116
14	J1 1	15.5	11.5	55/11	10 23 73			, 50	01	, mue im Giva	. LL (web, very	zompaci	110
•	6B	14.5	15.0				Grey SILT	and ROC	K fra	gments (wet)			
15							Hard drilli			• •			
16													
17													
17													
18							Auger refu	sal @ 18	4'				
10	7	18.4	18.4	SS/0	100@0"		No Recove	_	•				100+
19							Bottom of		18.4	1			

					orporate Drive	SI	J <b>BS</b> URF	ACE EX	PL(	ORATION	Boring No.		384
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 2
		ociates	S. Land	i none.	315-701-0522		1691	DOM	101		Report No.		3-03-1223
Project	Name:			us, Clay,	New York	-					Date Started		19/23
Client:		Rambo									Date Finished		19/23
Locatio	n:			on Locati							Surface Elev.		2.6'
				DS OF	INVESTIGATIO				GR	OUNDWATER	R OBSERVAT	IONS	
Driller:		J. Win			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:						• ` ` ′	_	
Inspecto		CME			Other:	211 OD 6	1:4 D1	10/19/23		While Drilling	7.0		8.5
Drill Ri Type:	g:	CME 5	)30A		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	10/19/23		re Casing Removed er Casing Removed	7.4 8.0		1.3 out
Rod Siz	۵۰	AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @ 12.7		out
Kou Siz			P∩D	INC S	AMPLES	30 III.	VI			SIFICATION (			Jui
		T		1110 57		1	V 1)	SUAL C	LAS		JI MIATEKIA	L	
Depth	a 1	Sample (F	e Depth	Type /	Blows on	Depth of		coarse		1 25 . 56	20 . 25	n./	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			0% / some - 20 to 35° 20% / trace - 0 to 10°		or RQD %
0	1A	0.0	1.0	SS/14	1-1-4-5	(11.)			Mate	erial (moist)	20707 trace - 0 to 10.	, 0	5
		0.0	1.0	22,1.			1 0 1 5 5 5 1 6 1 6 1	918	1,1000	(110150)			1
1	1B	1.0	2.0				Light Brow	n SILT, t	medium stiff)				
2	2	2.0	4.0	SS/16	9-7-8-7		Light Brow	n SILT, t	race f	fine SAND (moist,	very stiff)		15
											•		
3													
4	3	4.0	6.0	SS/12	4-4-4-6		Similar as	above (mo	oist, s	tiff)			8
5													
			0.0	00/10	5.5.4.2		G: '1	1 (	. ,				0
6	4	6.0	8.0	SS/19	5-5-4-3		Similar as	above (mo	DIST, S	1111)			9
7													
,													
8	5	8.0	10.0	SS/15	3-4-5-7		Similar as	above (mo	oist. s	tiff)			9
		0.0	10.0	55/15	3 1 3 7		Similar as	(III	J15 <b>1</b> , 5	)			
9													
10	1												
11						1							
12													
13													
	6	13.5	15.0	SS/16	1-3-4	1	Light Grev	SILT, tra	ce fir	ne SAND (moist, n	nedium stiff)		7
14								,		, ,	,		
15						1							
						1							
16						1							
							<b> </b>						
17													
10													
18	7	18.5	20.0	SS/14	1-20-32	1	Dorle Casa	wooth	4 D.O.	CV frommer 1:44	o SII T (wat)		52
19	′	18.3	∠0.0	33/14	1-20-32	Dark Grey weathered ROCK fragments, little SILT (wet)						32	
12						1							
20	1						Continued	on Dage 7	,				

#### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-384

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone: 3	315-701-0522		TEST BORING L	UG	Report No. 2	28062B-03-1223
					MPLES		VISUAL CLASS	IFICATION (		
Depth Scale	Sample	Sample (F	e Depth	Type / Sample	Blows on Sampler	Depth of Change	c - coarse m - medium	and - 35 to 50	0% / some - 20 to 35%	SPT "N" or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f - fine	little - 10 to 2	20% / trace - 0 to 10%	RQD %
20							Continued from Page 1  Auger refusal @ 21.3'			
22	8	21.3	21.3	SS/0	100@0"		No Recovery Bottom of Boring @ 21.3'			100+
23							Bottom of Boring @ 21.3			
24										
25	_									
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
40	_									
41										
42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 Cc	orporate Drive	SI	JBSURF A	ACE EX	XPL C	ORATION	Boring No.	В-	391
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 1
	Asso	ociates	s, Inc.	Phone: 3	315-701-0522		1651	DUKI	NGL	JUG	Report No.	28062E	3-03-1223
Project	Name:	Micron	Campi	us, Clay,	New York						Date Started	10/	31/23
Client:		Rambo	11								Date Finished	11/	01/23
Location	n:	See Ex	ploratio	n Locati	on Plan						Surface Elev.	39	93.0'
		ME	THO	DS OF	INVESTIGATIO	N			GR	OUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casina	g At (Ft.)
Driller:		R. Casa	atelli		Casing Hammer:						Depth (Ft.)	Casing	g At (Ft.)
Inspecto					Other:			10/31/23		While Drilling	4.2	1	3.5
Drill Ri	g:	CME 5	50X		Soil Sampler:		Split Barrel	11/01/23		e Casing Removed	3.0	1	8.5
Type:		ATV			Hammer Wt:	140 lbs.		11/01/23		r Casing Removed	Well Installed		out
Rod Siz		AWJ			Hammer Fall:	30 in.		11/01/23		r Casing Removed	N/A		out
	LO	G OF	BORI	ING SA	MPLES		VIS	SUAL C	LASS	SIFICATION C	OF MATERIA	L	T-
Depth		Sample		Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35°	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109	<b>%</b>	RQD %
0	1A	0.0	0.5	SS/16	WH-2-3-4		Topsoil and					. —	5
	1B	0.5	2.0				_	•	ILT, tı	race fine SAND, t	race CLAY (mo	oist,	
1							medium sti	11)					
2	2	2.0	4.0	SS/16	3-5-5-5		_	n/Grey S	ILT, tı	race fine SAND, t	race CLAY (mo	ist,	10
3							stiff)						
4	3	4.0	6.0	SS/24	4-4-5-5		Light Brow	n SILT, t	race fi	ine SAND (moist,	stiff)		9
5													
6	4	6.0	8.0	SS/24	4-3-4-3		Similar as a	above (mo	oist, m	edium stiff)			7
7													
8	5	8.0	10.0	SS/20	2-3-3-4		Similar as a	above (we	et, med	lium stiff)			6
9													
10							See Remar	k 1					
11													
12													
13	6	13.5	15.0	SS/6	4-3-2		Grov CII T	little erro	f CD A	VEL, trace fine S	AND (maist	odium	5
14	U	13.3	13.0	33/0	4-3-2		stiff) Low Recov		i UKA	vel, nace fine S	MIOISI, M	cuiuifi	
15							Low Kecov	ery					
16													
17													
18													
19	7	18.5	19.8	SS/12	44-68-100@3"		Dark Grey	weathere	d ROC	CK fragments, littl	e SILT (moist)		100+
17							Bottom of	Boring @	19.8'				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod **Remarks:** 1. Installed well in hole; 5.0' screen at depth of 10.0'

		N/		6035 Co	orporate Drive	SI	JBSURF A	ACE EX	KPLORATION	Boring No.	B-	400
		IV	Ę		racuse, NY 13057				NG LOG	Page No.	1 (	of 1
	Asso	ociates	s, Inc.	Phone:	315-701-0522		1651	DUKI	NG LUG	Report No.	28062B	-03-1223
Project	Name:	Micror	Campi	us, Clay,	New York	=				Date Started	11/0	)2/23
Client:		Rambo	11							Date Finished	11/0	)2/23
Location	n:	See Ex	ploratio	n Locati	on Plan					Surface Elev.	39	9.6'
		ME	THO	DS OF	INVESTIGATIO	N			GROUNDWATE	R OBSERVAT	IONS	
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	Date	Time	Depth (Ft.)	Casina	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:				Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto					Other:	NQ-Cor		11/02/23	While Drilling	None Noted	13	8.8
Drill Ri	g:	CME 5	550X		Soil Sampler:		plit Barrel	11/02/23	Before Casing Removed	None Noted	13	8.8
Type:		ATV			Hammer Wt:	140 lbs.		11/02/23	After Casing Removed	Cored	C	out
Rod Siz		AWJ			Hammer Fall:	30 in.		11/02/23	After Casing Removed	N/A		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFICATION (	OF MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change	m -	medium	and - 35 to 5	0% / some - 20 to 35	0/0	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 100	<b>%</b>	RQD %
0	1A	0.0	1.0	SS/15	1-1-4-5		Topsoil and	d Organic	Material (moist)		. — —	5
1	1B	1.0	2.0				Light Brow		ILT, trace fine SAND,	trace ROOTS (m	noist,	
2	2	2.0	4.0	SS/17	5-5-5-10			,	race fine SAND (moist	, stiff)		10
3												
4	3	4.0	6.0	SS/22	5-6-4-4			vn SILT, 1	ittle cmf GRAVEL, litt	le cmf SAND (m	noist,	10
5							stiff)					
6	4	6.0	8.0	SS/17	5-11-15-16		Light Brow very stiff)	vn SILT, l	ittle cmf SAND, trace o	emf GRAVEL (n	noist,	26
7												
8	5	8.0	8.7	SS/6	20-100@2"				d ROCK fragments, litt @ 8.8'. Set up to core.	le SILT, little cm	of SAND	100+
9	R1	8.8	13.8	C/59	NQ-Core		Dark Grey	/Black DO	OLOSTONE with interb proughout, moderately v	•		63%
10							to medium	bedded, 1	nedium hard to hard.  ith weathered Shale lay			
11							12.4' and 1	2.6'.	= 98%   RQD: 38"/60"			
12								2" Chips	and fragments			
13							Coring con	iducted in	5th gear, 2400 rpm, 40			
14	R2	13.8	18.8	C/59	NQ-Core		(<1/8" to 1	" thick) th	OLOSTONE with interbaroughout, slightly weat	•		75%
15							Weathered	and brok	um soft to hard. en zone @ 17.8' to 18.8			
16							8 Pieces, 6	" Chips a	98%   RQD: 45"/60" = nd fragments	75%		
17								iducted in	r loss 5th gear, 2400 rpm, 40	00 psi down pres.	sure.	
18							See Remar					
19							Bottom of	Boring @	18.8'			

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod **Remarks:**1. Installed well at depth of 10.0' with 5.0' screen and 5.0' riser.

		M	F		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No.		401
	Acer	ciates	Inc		racuse, NY 13057		TEST	BORI	NG I	LOG	Page No.		of 1
			20 1100	T Hone.	315-701-0522						Report No.		3-03-1223
Project Client:	Name:	Micron		us, Clay,	New York						Date Started Date Finished		26/23 26/23
Location				n Location	on Dlon						Surface Elev.		00.7'
Location					INVESTIGATIO	N			GR	ROUNDWATER			70.7
Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.		GIV				
Driller:		K. Cra			Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	A. Sha	rma, EI	T	Other:			10/26/23		While Drilling	4.9	3	3.5
Drill Ri	g:	CME 4	15		Soil Sampler:	2" OD S	plit Barrel	10/26/23		ore Casing Removed	5.5	8	3.5
Type:		Track			Hammer Wt:	140 lbs.		10/26/23		er Casing Removed	4.8	(	out
Rod Siz		AW			Hammer Fall:	30 in.		10/26/23		er Casing Removed	caved @ 8.3		out
	LO			ING SA	MPLES		VIS	SUAL C	LAS	SIFICATION O	DF MATERIA	L	
Depth		Sample		Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 359		or DOD 9/
(Feet)	No.	From 0.0	To 0.5	Rec. (in.) SS/16	Per 6 Inches 1-1-3-7	(Ft.)		- fine	Mate	erial (moist)	0% / trace - 0 to 10%	<u>′0</u>	RQD %
	1B	0.5	2.0	55/10	1-1-5-7					e fine SAND, trace	CLAY (moist.		1 1
1		***					medium sti		,				
								,					
2	2	2.0	4.0	SS/16	5-6-6-5		Brown mot	tled SILT	, little	e CLAY, trace fine	e SAND (wet, sti	iff)	12
_													
3													
4	3	4.0	6.0	SS/12	3-1-1-10		Danaran CII	Т аста	f C	AND two so met CD	AVEL trace CI	. A 37	2
4	3	4.0	6.0	33/12	3-1-1-10		(wet, soft)	1, some c	iiii 5.	AND, trace mf GR	AVEL, trace CI	LA I	2
5	1						(wci, 301i)						
6	4	6.0	8.0	SS/11	10-17-17-14		Brown SIL	T, some n	nf GF	RAVEL, some cmf	SAND (moist, h	nard)	34
							Augered gr	avelly be	ginni	ng @ 6.5'			
7													
0	_	0.0	0.0	99.10	40.10.50.00		G 1	100	OTT 1	1.0	tint con it		50.
8	5	8.0	9.2	SS/8	40-12-50@2"		trace SILT			hips and fragments.	, little mf GRAV	EL,	50+
9							Auger refu			(WEL)			
							Bottom of						
10													
11													
10													
12													
13													
13													
14													
15													
16													
17													
1 /													
18													
19													

					orporate Drive	SU	J <b>BSURF</b> A	ACE EX	(PL	ORATION	Boring No.		402
	Acc	ciates	Inc		racuse, NY 13057		TEST	BORI	NG I	LOG	Page No.		of 1
				i none.	315-701-0522						Report No.		3-03-1223
Project Client:	Name:			us, Clay,	New York						Date Started		26/23
		Rambo		т .:	DI .						Date Finished	-	26/23
Location	n:			n Locati	INVESTIGATIO	N			CD	ROUNDWATER	Surface Elev.		98.3
Driller:		H. Lyo		DS OF	Casing:	3 ¼" ID	HSA		GIV		ODSERVAI	10113	
Driller:		K. Cra			Casing Hammer:	3 /4 ID	11.5.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto		A. Sha		T	Other:			10/26/23		While Drilling	None Noted		_
Drill Ri	g:	CME 4			Soil Sampler:	2" OD S	Split Barrel	10/26/23	Befo	ore Casing Removed	None Noted		-
Type:		Track			Hammer Wt:	140 lbs.		10/26/23	Afte	er Casing Removed	None Noted	C	out
Rod Siz		AW			Hammer Fall:	30 in.		10/26/23		er Casing Removed	caved @ 5.1		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth			Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	3.6 .		0% / trace - 0 to 109	%	RQD %
0	1A 1B	0.0	0.8 2.0	SS/10	1-1-2-2	<b> </b>				erial (moist) AND (moist, soft)			3
1	16	0.8	2.0				Brown SIL	1, mue c	IIII SA	AND (moisi, soii)			
1													
2	2	2.0	4.0	SS/19	2-3-4-5		Brown mot	tled SILT	`. som	ne cmf SAND, little	e CLAY, trace n	nf	7
							GRAVEL				,		
3										,			
4	3	4.0	5.3	SS/9	2-4-50@3"					cmf SAND, little n	nf GRAVEL, lit	tle	50+
							CLAY (mo						
5							Auger refu						
							Bottom of	Boring (a)	5.2'				
6													
7													
,													
8													
9													
10													
11													
12													
13													
1 , ,													
14													
15													
16													
17													
18													
19													
20													

						1					Danina Ma	В	402
		N	Æ		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	KPL	ORATION	Boring No.		403
	Acc	ciate	e Inc		racuse, NY 13057		TEST	BORI	NG I	LOG	Page No.		of 1
			2000	i mone.	315-701-0522						Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		25/23
Client:		Rambo		T	DI .						Date Finished	-	25/23
Locatio	n:			on Locati		NI			CD	OHNDWATED	Surface Elev.		00.1'
Driller:		H. Lyc		DS OF	INVESTIGATIO Casing:	3 ¼" ID	нсл		Gr	ROUNDWATER	OBSERVAI	IONS	
Driller:		K. Cra			Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			rma, El	Т	Other:			10/25/23		While Drilling	None Noted		_
Drill Ri		CME 4			Soil Sampler:	2" OD S	Split Barrel	10/25/23		ore Casing Removed	None Noted		_
Type:	8-	Track			Hammer Wt:	140 lbs.	-	10/25/23		er Casing Removed	None Noted	(	out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/25/23		er Casing Removed	caved @ 5.6		out
		G OF	BOR	ING SA	AMPLES		VI			SSIFICATION C		L	
Donth			e Depth		Blows on								SPT "N"
Depth Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		coarse medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	0% / trace - 0 to 109	%	RQD %
0	1	0.0	2.0	SS/15	1-1-1-5		Light Brow	vn SILT,	ittle o	cmf SAND, trace R	OOTS (moist, s	soft)	2
1													
	_							_					
2	2	2.0	4.0	SS/16	7-5-4-6		Brown SIL	T, some	emf S	SAND, trace mf GR	AVEL (moist, s	st1ff)	9
,													
3													
4	3	4.0	6.0	SS/10	3-2-1-2		Drown mot	r II2 bel <del>u</del>	- com	ne cmf SAND, little	o fino CDAVEI	trace	3
4	3	4.0	0.0	33/10	3-2-1-2		CLAY (we		, son	ne cini sand, nun	e ille GKAVEL	, trace	3
5							CLAT (WC	λ, δοπ)					
6	4	6.0	6.2	SS/2	50@2"		Brown/Gre	ey mf GR.	AVEI	L, some SILT, trace	e cmf SAND (w	et, very	50+
							compact)	,		,	`	, ,	
7							Bottom of	Boring @	6.2'				
8													
9													
10	ļ												
10													
11													
11													
12													
13													
14													
15													
1.0													
16													
17													
1/													
18													
10													
19													
20	1	I	ı	I		1	I						1

											D • N	- D	40.4
		M			orporate Drive	SU	J <b>BSURF</b> A	ACE EX	<b>CPL</b>	ORATION	Boring No.		404
	Aggr		luc		racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 1
			s, Inc.	i mone.	315-701-0522		1201	DOM			Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Location	n:		•	on Locati		N.T			CI		Surface Elev.		9.0'
D 33				DS OF	INVESTIGATIO		II C A		Gh	ROUNDWATER	OBSERVAI	IONS	
Driller: Driller:		H. Lyo K. Cra			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	`		ndan rma, EI	т	Casing Hammer: Other:			10/26/23		While Drilling	2.7	2	5.5
Drill Ri		CME 4		. 1	Soil Sampler:	2" OD S	Split Barrel	10/26/23		ore Casing Removed	2.8		1.5
Type:	ğ•	Track	<b>T</b> J		Hammer Wt:	140 lbs.	-	10/26/23		er Casing Removed	3.0		out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/26/23		er Casing Removed	caved @ 5.0		out
1104 812			BOR	ING SA	AMPLES	1	VI			SSIFICATION C	Ŭ		
-		T	e Depth								T IVIII EILII		GD 12 111
Depth Scale	Sample		t.)	Type /	Blows on Sampler	Depth of		coarse medium		and 25 to 50	% / some - 20 to 35	0/.	SPT "N" or
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			0% / trace - 0 to 10°		RQD %
0	1A	0.0	0.5	SS/15	1-2-4-3	(= 1.)			Mate	erial (moist)	***************************************	_	6
	1B	0.5	2.0							le cmf SAND, little	mf GRAVEL (	moist,	
1							medium sti					`	
2	2	2.0	4.0	SS/17	4-3-3-3				mf S	SAND, little mf GR	AVEL, trace CI	LΑΥ	6
							(wet, medi	um stiff)					
3													
4	3	4.0	5.6	SS/9	5-12-30-50@1"				d RO	CK fragments, littl	e mf GRAVEL,	little	42
	ł						SILT (wet)	)					
5							1	1 (2) 5 5	,				
6							Auger refu Bottom of						
0							Bottom of	Boring (a)	5.0				
7													
,													
8													
9													
10													
11													
12													
1.2													
13													
14													
14													
15													
15													
16													
17													
18													
19													
20													

					orporate Drive	SI	J <b>BS</b> URF	ACE EX	(PL	ORATION	Boring No.		405
		LV	Ę		racuse, NY 13057			BORI			Page No.	1	of 1
	100000	ociates	12 DVC12	i none.	315-701-0522		11231	DOM	110	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			on Locati							Surface Elev.		8.3'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra			Casing Hammer:			10/26/22				_	
Inspecto		A. Sha	rma, El	I	Other:	2" OD 6	ulit Damal	10/26/23		While Drilling	None Noted  None Noted		-
Drill Ri Type:	g:	Track	+3		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	10/26/23		ore Casing Removed er Casing Removed	None Noted  None Noted		out
Rod Siz	۵۰	AW			Hammer Fall:	30 in.				er Casing Removed	caved @ 4.2		out
Rou Siz			ROR.	ING S	AMPLES	J0 III.	VI			SIFICATION C			, (1)
		T		1110 57					LAS		T WATERIA	L	
Depth	G 1	Sample (F	e Depth	Type /	Blows on	Depth of		coarse		1 25 4 50	0// 20/ 25/	0./	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35 0% / trace - 0 to 109		or RQD %
0	1A	0.0	0.5	SS/13	1-1-1-3	(1 (.)			Mate	erial (moist)	Hace - 0 to 10.		2
	1B	0.5	2.0	~~,13						AND, trace fine G	RAVEL (moist.	soft)	~
1								,		, <b></b> G.	(	,	
2	2	2.0	3.8	SS/5	2-6-8-50@3"		Brown mot	tled SILT	, som	ne cmf SAND, som	e mf GRAVEL	(moist,	14
							stiff)						
3													
4	3	4.0	4.8	SS/4	4-50@3"			GRAVEL	, som	e cmf SAND, little	SILT (moist, ve	ery	50+
							compact)						
5							Auger refu						
							Bottom of	Boring @	4.8'				
6													
_													
7													
8													
8													
9													
9													
10	1												
11													
12													
13													
14													
15													
16													
1.7													
17													
10													
18													
19													
19													
20	1												

				6035 C	orporate Drive	SI	UBSURF	ACE EX	(PL	ORATION	Boring No.	B-	406
		IV	Ę	East Sy	racuse, NY 13057			BORI			Page No.	1	of 1
	Asso	ociates	s, Inc.	Phone:	315-701-0522		ILSI	DOKI	NG.	LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York	-					Date Started	10/2	26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			on Locati							Surface Elev.		7.7'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspect		K. Cra		т	Casing Hammer:			10/26/22					
Drill Ri		A. Sha		.1	Other: Soil Sampler:	2" OD 9	Split Barrel	10/26/23		While Drilling ore Casing Removed	None Noted  None Noted		-
Type:	g.	Track	<b>t</b> J		Hammer Wt:	140 lbs.	-	10/26/23		er Casing Removed	None Noted		- out
Rod Siz	e:	AW			Hammer Fall:	30 in.				er Casing Removed	caved @ 4.2		out
rtou SIZ			ROR	ING S	AMPLES	T	VI			SSIFICATION C			-
		T		110 52		+					T WITTER		T
Depth Scale	Sample	Sample (F	e Depth	Type /	Blows on Sampler	Depth of		coarse medium		and 25 to 50	% / some - 20 to 35	2/2	SPT "N"
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			0% / some - 20 to 33 0% / trace - 0 to 10		or RQD %
0	1A	0.0	0.5	SS/10	1-3-3-5	()			Mate	erial (moist)			6
	1B	0.5	2.0			1				RAVEL, little cmf	SAND (moist, n	nedium	1
1							stiff)			•	. ,		
2	2	2.0	4.0	SS/15	3-4-5-11			ttled SILT	, son	ne cmf SAND, little	e mf GRAVEL (	wet,	9
							stiff)						
3													
				994	<b>50</b> 0 4 H		D /6	~** m		22.275	an		
4	3	4.0	4.1	SS/1	50@1"					nf SAND, trace mf	GRAVEL (wet,	hard)	50+
-	_						Auger refu						
5							Bottom of	Boring (a)	4.2				
6													
7													
<b>'</b>													
8													
9													
10													
11													
12													
13													
14													
1.5	4												
15													
16													
17													
18													
19													
20	1												

		N/		6035 Co	orporate Drive	SI	IBSURFA	ACE EX	(PL	ORATION	Boring No.	B-	407
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 1
		ociates		i none.	315-701-0522		11231	DOM	110	LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:		•	on Locati		<b>.</b>	1		<u> </u>		Surface Elev.		7.0'
D 30				DS OF	INVESTIGATIO		TI C A		GR	ROUNDWATER	OBSERVAT	TONS	
Driller: Driller:		H. Lyo K. Cra			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto		A. Sha		т	Other:			10/26/23		While Drilling	None Noted		_
Drill Ri		CME 4		. 1	Soil Sampler:	2" OD S	Split Barrel	10/26/23		ore Casing Removed	None Noted		-
Type:	<b>5</b> •	Track			Hammer Wt:	140 lbs.	-	10/26/23		er Casing Removed	None Noted	(	out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/26/23		er Casing Removed	caved @ 4.2		out
		G OF	BOR	ING SA	AMPLES		VI			SIFICATION C		L	
Depth		T	e Depth		Blows on			- coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1A	0.0	0.5	SS/10	1-1-8-4					erial (moist)			9
	1B	0.5	2.0				Brown cm	f SAND a	nd m	f GRAVEL, some	SILT (moist, loc	ose)	
1													
2	2	2.0	4.0	SS/16	2-3-6-15		D	411 CII T		a amf CAND little	o mf CD AVEL	1:441	9
2	2	2.0	4.0	55/10	2-3-0-13		CLAY (mo		, son	ne cmf SAND, little	e iiii GKAVEL,	nuie	9
3							CLAT (IIIC	oist, stiii)					
3													
4	3	4.0	5.0	SS/9	1-6-50@0"		Dark Grey	weathere	d RO	CK fragments and	SILT (moist)		50+
										8	,		
5	1						Auger refu						
							Bottom of	Boring @	5.5'				
6													
_													
7													
8													
9													
10													
1.1													
11													
12													
12													
13													
14													
15													
16													
10													
17													
18													
19													
20													

					orporate Drive	SI	J <b>BSURF</b>	ACE EX	PL(	ORATION	Boring No.		408
					racuse, NY 13057			BORI			Page No.		of 2
		ciates	20 1100	I none.	315-701-0522		11251	DOM	10	LOG	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		02/23
Client:		Rambo									Date Finished		02/23
Location	n:			n Locati							Surface Elev.		2.3'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra		T.	Casing Hammer:			11/02/22		Wil 1 D 111			
Inspecto		A. Sha	rma, EI	1	Other:	2" OD 0	1'4 D1	11/02/23		While Drilling	6.8 8.2		2.5 4.1
Drill Rig Type:	g:	Track	:3		Soil Sampler: Hammer Wt:	2 OD S	plit Barrel	11/02/23		ore Casing Removed er Casing Removed	None Noted		out
Rod Siz	۵۰	AW			Hammer Fall:	30 in.		11/02/23		er Casing Removed	caved @ 6.0		out
Kou Siz			R∩DI	INC S	AMPLES	30 III.	VI			SIFICATION C	)		Jui
	LO			ING SA			V 1)	SUAL C	LAS	I	T WIATEKIA	L	1
Depth		Sample (F	Depth	Type /	Blows on	Depth of		coarse				.,	SPT "N"
Scale (Feet)	Sample	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			% / some - 20 to 35° 0% / trace - 0 to 10°		or POD %
0	No.	0.0	2.0	SS/22	1-1-3-4	(Ft.)			trac	ce mf SAND, trace			RQD %
U	1	0.0	2.0	55/22	1-1-3-4		(wet, medi		, nac	c iii sand, tracc	CLAT, Hace K	5015	
1							(wet, mean	am sum					
•													
2	2	2.0	4.0	SS/17	4-3-4-4		Brown SIL	T. little C	LAY	, trace fine SAND	(wet, medium st	tiff)	7
_								-,		,	(,	)	
3													
4	3	4.0	6.0	SS/18	5-6-7-8		Brown SIL	T, trace fi	ine S.	AND, trace CLAY	(wet, stiff)		13
5													
6	4	6.0	8.0	SS/16	9-10-11-12		Brown SIL	T, trace fi	ine S.	AND (wet, very sti	ff)		21
7													
	_	0.0	400	22/10	<b>-</b> 0 0 10		a						
8	5	8.0	10.0	SS/18	7-9-8-10		Similar as	above (we	et, vei	ry stiff)			17
0													
9													
10													
10													
11													
11													
12													
13	6	13.0	15.0	SS/16	5-6-4-6		Grey SILT	, little CL	AY (	wet, stiff)			10
					-			. –	(	, ,			
14													
<u> </u>													
15													
16													
17													
4.0	_	46.5	•	ac /2				J.—		41.4			
18	7	18.0	20.0	SS/9	3-4-6-6		Grey SILT	, some CL	ΔY,	little cmf SAND (v	wet, stiff)		10
10													
19													
1				Ī									1

#### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-408

 Page No.
 2 of 2

 Report No.
 28062B-03-1123

	Ass	ociate	s, Inc.	Phone:	315-701-0522		LEST BURING	LUG	Report No. 2806	2B-03-1123
					AMPLES		VISUAL CLAS	SIFICATION (		
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20 21							Continued from Page 1			
22 23	8	23.0	23.9	SS/4	12-50@5"		Augered gravelly beginning Grey ROCK fragments, tra	ng @ 22.5' ace cmf SAND (w	vet)	50+
24							Auger refusal @ 24.1' Bottom of Boring @ 24.1'			
26										
27 28										
29										
30										
31 32										
33										
34										
35 36										
37										
38										
39 40										
41										
42										
43 44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SI	J <b>BSURF</b>	ACE EX	KPL(	ORATION	Boring No.		409
	1		lu-		racuse, NY 13057			BORI			Page No.		of 2
		ociates	S. Land	i none.	315-701-0522	<u> </u>	1101	. 20IM	. , •		Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		02/23
Client:		Rambo		<b>T</b>	DI.						Date Finished		02/23
Locatio	n:			on Locati	on Plan INVESTIGATIO	NT.			CD	OUNDWATED	Surface Elev.		93.5'
Driller:		H. Lyo		DS OF	Casing:	3 ¼" ID	ПСЛ		Gr	ROUNDWATER	OBSERVAI	IUNS	
Driller:		K. Cra			Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			rma, EI	Т	Other:			11/02/23		While Drilling	7.7		3.0
Drill Ri		CME 4			Soil Sampler:	2" OD S	Split Barrel	11/02/23		ore Casing Removed	4.3		23
Type:		Track			Hammer Wt:	140 lbs.	-	11/02/23		er Casing Removed	4.9	(	out
Rod Siz	æ:	AW			Hammer Fall:	30 in.		11/02/23	Afte	er Casing Removed	caved @ 5.9	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	e Depth	T/	Blows on	D. d. c	c -	coarse					SPT "N"
Scale	Sample	(F	_	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°		RQD %
0	1	0.0	1.0	SS/12	1-2-3-3				CLAY	, trace fine SAND	, trace ROOTS	(moist,	5
							medium sti	iff)					
1													
_		2.0	4.0	00/15	2.4.4.5		D .	и 1 оп т	,	CLAN 4 C	CAND (		
2	2	2.0	4.0	SS/15	3-4-4-5		Brown mot	nied SIL i	, son	ne CLAY, trace fin	e SAND (wet, s	1111)	8
3													
3													
4	3	4.0	6.0	SS/16	3-4-4-5		Brown mot	ttled SILT	` 1itt1	e CLAY, trace fine	SAND (wet_st	iff)	8
		1.0	0.0	55/10	3 1 1 3		Brown mo	ined SIET	, 11111	c chiii, uucc iiii	STITE (Wei, St	111)	
5	1												
6	4	6.0	8.0	SS/14	4-5-5-5		Brown SIL	T, trace f	ine S.	AND, trace CLAY	(wet, stiff)		10
7													
8	5	8.0	10.0	SS/20	4-7-6-8		Brown SIL	T, trace n	nf SA	ND, trace CLAY (	(wet, stiff)		13
9													
10	-												
10													
11													
11							Augered ho	ard hegini	nino (	@ 11.5'			
12							Linger cu m	a ocguu					
13	6	13.0	15.0	SS/12	3-4-5-4		Grey SILT	, little CL	AY,	trace fine SAND (v	wet, stiff)		9
										`	ŕ		
14													
15													
16													
1.7													
17													
18	7	18.0	20.0	SS/16	WH-1-2-3		Grey CLA	V and SII	т 1;4	ttle cmf SAND, litt	le mf CD AVIDI	(wat	3
10	'	10.0	20.0	33/10	VV11-1-2-3		soft)	ı anu sil	.1,111	uic ciiii sand, iiti	IC IIII OKA VEL	(wei,	3
19							3011)						
1)													
20	1						Continued	on Dage ?	,				

## Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-409

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone: 3	315-701-0522	TEST BORING LOG Report No. 28062B-03-122							
					AMPLES	VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample	Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)		and - 35 to 50°	% / some - 20 to 35% 0% / trace - 0 to 10%	SPT "N" or RQD %			
20							Continued from Page 1						
21							Augered gravelly beginning	@ 20.5'					
22													
23	8	23.0	23.2	SS/0	50@2"		No Recovery. Auger refusal Bottom of Boring @ 23.4'	(@ 23.4'		50+			
24													
25													
26 27													
28													
29													
30													
31													
32													
33													
34													
35 36													
37													
38													
39													
40	1												
41													
42													
43													
44													
T-J	i	i	ı			1	Ī			1			

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	Ę	East Sy	orporate Drive racuse, NY 13057	SU	UBSURFA TEST	ACE EX	Page No. 1 o		<b>410</b> of 2		
		ociate	2	i none.	315-701-0522	1	1131	DOM.	U	LUU	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		30/23
Client:		Rambo									Date Finished		30/23
Locatio	n:		_	on Locati							Surface Elev.		3.3'
				DS OF	INVESTIGATIO				GI	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyc			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra			Casing Hammer:								
Inspect			rma, El	ſΤ	Other:			10/30/23		While Drilling	4.6		7.5
Drill Ri	g:	CME 4	45		Soil Sampler:		Split Barrel	10/30/23		ore Casing Removed	22.4		23
Type:		Track			Hammer Wt:	140 lbs.		10/30/23		ter Casing Removed	11.5	C	out
Rod Siz		AW			Hammer Fall:	30 in.		10/30/23		ter Casing Removed	caved @ 12.0		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample		?t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 359	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	0% / trace - 0 to 10%	6	RQD %
0	1	0.0	2.0	SS/14	1-1-4-5		Grey/Brow	n SILT, 1	ittle 1	mf SAND, trace CI	AY (wet, mediu	ım	5
							stiff)						
1													
2	2	2.0	4.0	SS/15	5-6-6-5		Brown mot	ttled SILT	Γ, littl	le CLAY, trace fine	e SAND (wet, sti	iff)	12
3													
4	3	4.0	6.0	SS/19	2-3-3-6		Brown SIL	T, trace f	ine S	SAND (wet, mediun	n stiff)		6
								,		,	,		
5													
6	4	6.0	8.0	SS/17	7-6-7-6		Similar as	above (we	et, sti	iff)			13
									,	,			
7													
,													
8	5	8.0	10.0	SS/21	4-6-6-8		Brown mot	ttled SILT	. trac	ce CLAY, trace fine	e SAND (wet, st	iff)	12
		0.0	10.0	20,21			Die wil inie		.,			)	1-
9													
10													
10													
11													
''						1							
12													
12													
13	6	13.0	15.0	SS/20	12-12-8-8		Grev/Brow	n SILT 1	ittle 4	cmf SAND, trace fi	ne GRAVEL (w	et. verv	20
1.5		15.0	15.0	55/20	12-12-0-0	1	stiff)			om ornab, nace n	OIGIVEE (W	, v.1 y	20
14							51111)						
1-7						1							
15	†					1							
1.5						1							
16						1							
10													
17						1							
1 /													
18	7	18.0	20.0	SS/16	2-5-9-5	1	Grev CII T	some CI	ΔV	, trace cmf SAND (	wet stiff)		14
10	_ ′	10.0	20.0	33/10	2-3-9-3		Oley SIL1	, some CI	LAI,	, nace chii SAND (	wei, suii)		14
10						1							
19													
20	4						G	D 1					

#### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-410

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

<b>Associates, Inc.</b> Phone: 315-701-0522						Report No. 28062B-03-122							
	LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.		Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35' 20% / trace - 0 to 109	%	T "N" or QD %		
20							Continued from Page 1 Augered gravelling beginn						
21													
22							Augered hard beginning (	@ 22.4'					
23	8	23.0	24.8	SS/8	5-8-8-50@4"		Grey cmf SAND and mf (compact)	GRAVEL, trace SI	ILT (wet, mediu	m	16		
24							Auger refusal @ 25.0'						
25							Bottom of Boring @ 25.0'						
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													
36													
37													
38													
39													
40													
41													
42													
43													
44													
45	1												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU	UBSURFA TEST	ACE EX	Page No. 1 o		<b>411</b> of 2		
		ociate		T Hone.	315-701-0522		1131	DOM.	U	LUU	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		30/23
Client:		Rambo									Date Finished	10/3	30/23
Locatio	n:		_	on Locati							Surface Elev.		3.2'
				DS OF	INVESTIGATIO	N			G]	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyc	n		Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casina	At (Ft.)
Driller:		K. Cra	ndall		Casing Hammer:						Depth (Ft.)	Casing	At (Ft.)
Inspect			rma, EI	T	Other:			10/30/23		While Drilling	9.3	1.	3.0
Drill Ri	g:	CME 4	15		Soil Sampler:	2" OD S	Split Barrel	10/30/23		Fore Casing Removed	14.4	2	2.7
Type:		Track			Hammer Wt:	140 lbs.		10/30/23		ter Casing Removed	9.8	C	out
Rod Siz		AW			Hammer Fall:	30 in.		10/30/23		ter Casing Removed	caved @ 12.1		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LA	SSIFICATION (	OF MATERIA	L	
Depth		Sample	e Depth	<b></b>	Blows on	5 1 0	C	coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35%	6	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/17	1-1-3-6		Brown mot	ttled SILT	Γ, litt	le cmf SAND, trace	ROOTS (moist	,	4
							medium sti	iff)		,			
1								,					
2	2	2.0	4.0	SS/15	7-8-9-9		Brown mot	ttled SILT	Γ, litt	le CLAY, little fine	SAND (moist, v	ery	17
							stiff)				,	•	
3													
4	3	4.0	6.0	SS/22	2-3-2-4		Brown SIL	T. some (	CLA	Y, trace fine SAND	(wet, medium s	tiff)	5
								,		-,	(,	)	
5													
6	4	6.0	8.0	SS/20	5-4-5-6		Brown SIL	T. little C	LA	Y, trace mf SAND (	wet, stiff)		9
								-,		(	,)		
7													
,													
8	5	8.0	10.0	SS/17	3-5-11-14		Similar as	above (we	et. ve	erv stiff)			16
Ü		0.0	10.0	22/1/					,	ily suilly			10
9													
10	1												
10													
11													
••													
12													
12													
13	6	13.0	15.0	SS/14	WH-21-42-46		Brown emi	f SAND a	ınd n	nf GRAVEL, little S	SILT (wet, very		63
13	~	15.0	15.0	55/17	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		compact)	. Sin iD a	11	CIGI ( D.D., IIIII )	(1100, VOI y		
14							compact)						
1-7													
15	†												
1.5													
16													
10													
17													
1 /													
18	7	18.0	20.0	SS/13	17-28-25-32		Grey cmf	SAND and	d mf	GRAVEL, trace SI	IT (wet very co	mpact)	53
10	_ ′	10.0	∠0.0	33/13	17-20-23-32		Oley Cill S	DAIND all	u IIII	OKA VEL, Hace SI	LI (wei, very co	mpact)	33
10													
19													
20	1						G	D 1	,				

<b>CME</b>
Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057 Phone: 315-701-0522

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-411

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522						Report No. 28062B-03-1223								
	LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample (F	Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%					
20	1			(/)		(1-1)	Continued from Page 1			1142 //				
21														
22							Anger wefreed @ 22.71							
23							Auger refusal @ 22.7' Bottom of Boring @ 22.7'							
24														
25														
26														
27														
28														
30	-													
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43 44														
45														

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	Ciates	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX	ORATION LOG	Page No. 1		<b>412</b> of 2	
				T Hone.	315-701-0522						Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		30/23
Client:		Rambo		T	. Di						Date Finished		30/23
Locatio	n:	•	_	on Locati	INVESTIGATIO	NT.			CI	ROUNDWATER	Surface Elev.		2.2'
Driller:		H. Lyc		DS OF	Casing:	3 ¼" ID	ПСУ		Gi	KOUNDWAIEN	ODSERVAI	IUNS	
Driller:		K. Cra			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:		rma, El	T	Other:			10/30/23		While Drilling	14.0	1:	8.0
Drill Ri		CME 4			Soil Sampler:	2" OD S	Split Barrel	10/30/23	Bef	ore Casing Removed	26.5		3.0
Туре:	8.	Track			Hammer Wt:	140 lbs.	-	10/30/23		ter Casing Removed	11.8		out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/30/23		ter Casing Removed	caved @ 13.7	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS			SSIFICATION C		L	
D4l.		1	e Depth										SPT "N"
Depth Scale	Sample	_	t.)	Type / Sample	Blows on Sampler	Depth of		coarse medium		and - 35 to 50	1% / some - 20 to 35%	/0	or or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/2	1-1-1-4		Brown mot	ttled SILT	`, litt	le mf SAND, trace			2
							(moist, soft	t)			·		
1													
2	2	2.0	4.0	SS/18	6-8-8-7		Brown mot	ttled SILT	`, littl	le fine SAND, trace	e CLAY (wet, ve	ry stiff)	16
3													
4	3	4.0	6.0	SS/16	4-4-3-4		Similar as	above (we	et, m	edium stiff)			7
5													
_	Ι.			99/40							( )		
6	4	6.0	8.0	SS/18	2-2-1-2		Brown SIL	T, trace C	LA!	Y, trace fine SAND	(wet, soft)		3
7													
7													
8	5	8.0	10.0	SS/14	1-7-5-10		Drayym/Dag	ldiah amf	CAN	ND and SILT, some	mf CD AVEL (v	wat	12
o	3	8.0	10.0	33/14	1-7-3-10		medium co		SAI	ND and Sill, some	IIII GRAVEL (V	vei,	12
9							incurum co	шраст)					
9													
10	1												
10													
11													
12													
13	6	13.0	15.0	SS/18	11-12-18-32				some	SILT, little mf GR	AVEL, trace CL	AY	30
							(wet, comp	act)					
14													
15							Augered ho	ard begini	ning	@ 15.2'			
1.													
16													
1.7													
17													
10	7	18.0	19.3	SS/21	25-40-50@4"		Gray amf	SAND on	1 mf	CDAVEL some CI	IT (wat vow a	mnoct)	50+
18	_ ′	18.0	19.3	33/21	25-40-30(@4"		Grey cmr S	SAND and	ı IIII	GRAVEL, some Sl	LI (wei, very co	лпраст)	30+
19													
19													
20	ł			1				D 0					Ī

## Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-412

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 23 8 23.0 24.9 SS/19 30-42-48-50@5" Grey cmf SAND, some fine GRAVEL, some SILT (wet, very 90 compact) 24 25 26 Auger refusal @ 27.0' 27 Bottom of Boring @ 27.0' 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	<b>413</b> of 2
		ociates		I mone.	315-701-0522		IESI	DOKI	NG	LOG	Report No.	28062B	-03-1223
Project	Name:			us, Clay,	New York	•					Date Started	10/3	31/23
Client:		Rambo	oll								Date Finished	10/3	31/23
Locatio	n:	See Ex	ploration	on Locati	on Plan						Surface Elev.	38	6.5'
		ME	THO	DS OF	INVESTIGATIO	N			Gl	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo	n		Casing:	3 ¼" ID	H.S.A.			T1	<b>5</b> (1.07)		(77.)
Driller:		K. Cra	ndall		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect	or:	A. Sha	rma, EI	T	Other:			10/31/23		While Drilling	7.8	8	3.0
Drill Ri		CME 4			Soil Sampler:	2" OD S	Split Barrel	10/31/23	Bef	fore Casing Removed	11.4	2	3.5
Type:	0	Track			Hammer Wt:	140 lbs.	-	10/31/23		ter Casing Removed	None Noted		out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/31/23		ter Casing Removed	caved @ 6.8		out
			ROR	ING S	AMPLES		VI			SSIFICATION C	)		
	I	T		1110 51			T 7 1,	JOHE C	.1		T WITTER		
Depth			e Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change		medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	LOTE		0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/16	1-1-3-4					T, trace mf SAND,	trace CLAY, tra	ace	4
							ROOTS (n	noist, med	lium	stiff)			
1													
	_												
2	2	2.0	4.0	SS/16	4-8-6-7			n mottled	SIL	T, little CLAY, trac	e fine SAND (n	noist,	14
							stiff)						
3													
4	3	4.0	6.0	SS/19	3-2-2-4		Brown mot	ttled SILT	, soı	me CLAY, trace fin	e SAND (moist,	, medium	4
							stiff)						
5	1												
6	4	6.0	8.0	SS/24	4-6-6-6		Brown SIL	T, little C	LAY	Y, trace fine SAND	(wet, stiff)		12
7													
8	5	8.0	10.0	SS/17	3-6-7-9		Similar as	above (we	et. st	iff)			13
Ü		0.0	10.0	22,1,					-, 50	)			10
9													
10													
10													
11													
1 1													
12													
12													
13	6	13.0	15.0	SS/18	WH-2-2-1		Grev CLA	Y. some o	mf S	SAND, little SILT, t	race fine GRAV	/EL	4
1.5		15.0	13.0				(wet, medi	-		, maio 51121, t	11110 01011		'
14							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sull <i>)</i>					
17													
15	1												
13													
16													
10													
17													
17							1			in = (2) 17.5!			
10	7	10 0	20.0	00/15	60012					ing @ 17.5'	T twees CT AN	(xxxxt	17
18	/	18.0	20.0	SS/15	6-8-8-12				u mf	GRAVEL, little SI	L1, trace CLAY	(wet,	16
10							medium co	mpact)					
19													
20	ļ						G .: .	D 1					

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-413

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone:	315-701-0522		LEST BUKING	LUG	Report No. 2806	2B-03-1223
					AMPLES		VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		e Depth Ft.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
<ul><li>20</li><li>21</li><li>22</li></ul>							Continued from Page 1  Augered gravelly beginning	ng @ 22.7'		
<ul><li>23</li><li>24</li><li>25</li></ul>	8	23.0	24.2	SS/7	27-40-50@2"		Grey cmf SAND, some m compact)  Auger refusal @ 24.3'  Bottom of Boring @ 24.3'	f GRAVEL, some	SILT (moist, very	50+
26										
<ul><li>27</li><li>28</li></ul>										
29										
30										
31										
33										
34										
35 36										
37										
38										
39 40										
41										
42										
43 44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION	Boring No. Page No.		<b>414</b> of 2
	Ass	ociate	s, Inc.	Phone:	315-701-0522		IESI	BUKI	NG	LUG	Report No.	28062B	-03-1223
Project	Name:	Micron	Camp	us, Clay,	New York	-					Date Started	11/0	)2/23
Client:		Rambo	oll								Date Finished	11/0	)2/23
Locatio	n:	See Ex	ploration	on Locati	on Plan						Surface Elev.	39	2.0'
		ME	THO	DS OF	INVESTIGATIO	N			GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyc	n		Casing:	3 ¼" ID	H.S.A.	D-4-		T:	Donath (E4.)	C	A 4 (E4.)
Driller:		K. Cra	ndall		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect	or:	A. Sha	rma, EI	T	Other:			11/02/23		While Drilling	8.8	1.	3.0
Drill Ri	g:	CME 4	15		Soil Sampler:	2" OD S	Split Barrel	11/02/23	Befo	ore Casing Removed	12.0	2:	3.0
Type:		Track			Hammer Wt:	140 lbs.		11/02/23	Aft	er Casing Removed	4.9	C	ut
Rod Siz	e:	AW			Hammer Fall:	30 in.		11/02/23	Aft	er Casing Removed	caved @ 7.0	C	ut
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION (	F MATERIA	L	
Depth		Sample	e Depth		Blows on	T		- coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35%	6	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/17	1-1-2-3				race	CLAY, trace fine S			3
							(wet, soft)	,		,	,		
1													
2	2	2.0	4.0	SS/15	4-7-7-7		Brown SIL	T, little C	LAY	, trace fine SAND	(wet, stiff)		14
								,		,	, ,		
3													
4	3	4.0	6.0	SS/24	2-4-5-6		Brown SIL	T, some (	CLA	Y, trace fine SAND	(wet, stiff)		9
•								,		-,	(,)		_
5	1												
6	4	6.0	8.0	SS/16	8-9-7-7		Brown SIL	T, trace C	CLAY	, trace fine SAND	(wet, very stiff)		16
								,		,	, , ,		
7													
8	5	8.0	10.0	SS/21	5-7-9-10		Similar as	above (we	et. ve	rv stiff)			16
									,	,			
9													
10													
11													
12													
13	6	13.0	15.0	SS/19	6-7-11-9		Brown SIL	T, trace C	CLAY	, trace cmf SAND	(wet, very stiff)		18
											- /		
14													
15	]												
16													
17													
18	7	18.0	20.0	SS/15	WR-2-3-7		Grey SILT	, some CI	LAY,	little cmf SAND,	ittle mf GRAVE	L (wet,	5
							medium sti						
19													
	]												
20	I	1	Ī	1	1	1	Ia .: 1	D 0					

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-414

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522  LOG OF BORING SAMPLES  Depth Sample Depth Type Blows of				315-701-0522		TEST BURING I	LOG	Report No. 2	8062B-03-1223
							VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20 21 22							Continued from Page 1  Augered hard beginning (a	a 22 5		
23 24 25	8	23.0	23.0	SS/0	50@0"		No recovery. Auger refus Bottom of Boring @ 23.0	al @ 23.0'		50+
26 27										
28										
30										
31										
33										
34										
36										
37 38										
39										
40										
42										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SI	J <b>BS</b> URF	ACE EX	PL	ORATION	Boring No.		415
		LV	Ę		racuse, NY 13057			BORI			Page No.	1	of 2
	Ass	ociate	12 DVC-12	i none.	315-701-0522		11231	DOM	110	LOG	Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		)1/23
Client:		Rambo									Date Finished		)1/23
Locatio	n:			on Locati		NNT.			CE		Surface Elev.		1.8'
D :				DS OF	INVESTIGATIO		II C. A		GR	ROUNDWATER	OBSERVAT	IONS	
Driller: Driller:		H. Lyc K. Cra			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			ndan rma, El	Т	Other:			11/01/23		While Drilling	7.1	1	7.5
Drill Ri		CME 4		.1	Soil Sampler:	2" OD S	Split Barrel	11/01/23		ore Casing Removed	10.6		2.4
Type:		Track			Hammer Wt:	140 lbs.	-	11/01/23		er Casing Removed	None Noted		out
Rod Siz	ze:	AW			Hammer Fall:	30 in.				er Casing Removed	caved @ 5.6	(	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth		Blows on	D 1 0	C.	coarse					SPT "N"
Scale	Sample	_	t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%		RQD %
0	1	0.0	2.0	SS/14	1-1-3-5				`, trac	e CLAY, trace fine	e SAND, trace R	ROOTS	4
							(wet, medi	um stiff)					
1													
_	2	2.0	4.0	00/15	5.5.5.5		D	.1 1 CTT T	111	CI AN C	CAND (	20	10
2	2	2.0	4.0	SS/15	5-5-5-5		Brown mo	tled SIL I	, litti	e CLAY, trace mf	SAND (wet, stif	1)	10
3													
3													
4	3	4.0	6.0	SS/24	2-3-3-5		Brown mot	tled SII T	` som	ne CLAY (wet, med	dium stiff)		6
~	]	7.0	0.0	55/24	2-3-3-3		DIOWII IIIO	arani sairi)					
5	<u>-</u>												
6	4	6.0	8.0	SS/18	7-7-7		Similar as	above (we	et, sti	ff)			14
7													
8	5	8.0	10.0	SS/18	6-8-10-14		Brown SIL	T, little C	LAY	, trace fine SAND	(wet, very stiff)		18
9													
10	-												
10													
11													
12													
13	6	13.0	15.0	SS/17	6-5-6-5		Brown/Gre	y SILT, l	ittle (	CLAY (wet, stiff)			11
14													
1.5													
15													
16													
10													
17													
							Augered gr	avelly be	ginni	ng @ 17.9'		. —	
18	7	18.0	20.0	SS/8	6-7-7-9					e cmf SAND, little	SILT (wet, med	ium	14
							compact)						
19													
20	4						G	ъ -					
20			i		1	•	Continued	on Dogo	,				

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-415

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Continued from Page 1   Augered refusal @ 22.4   SS/0   S0@0'   Bottom of Boring @ 22.4'   Some series   Some se	SPT "N
Depth   Scale   Sample   (Fet)   No.   From   To   Rec. (in)   Sompler   Per 6 Inches   Per 6 Inches   Continued from Page 1	SPT "N
21	
22 8 22.4 22.4 SS/0 50@0' Augered refusal @ 22.4' No Recovery  24 25 26 27 28 29	
8 22.4 22.4 SS/0 50@0'  No Recovery Bottom of Boring @ 22.4'  25 26 27 28 29	
24       25       26       27       28       29	50+
26       27       28       29	
27 28 29	
28 29	
29	
31	
32	
33	
34	
35	
36       37	
38	
39	
40	
41	
42	
43	
44 45	

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

						1							
					orporate Drive	SU	J <b>BSURF</b>	ACE EX	PL	ORATION	Boring No.		416
					racuse, NY 13057		TEST	BORI	NG 1	LOG	Page No.		of 1
		ociates	2000	i none.	315-701-0522		1131	DOM	. 10		Report No.		-03-1223
Project	Name:			us, Clay,	New York						Date Started		1/23
Client:		Rambo									Date Finished		1/23
Locatio	n:			on Locati							Surface Elev.		2.3'
				DS OF	INVESTIGATIO				GR	COUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyo			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra		_	Casing Hammer:								
Inspecto			rma, EI	Т	Other:	011 OD 0	1 11 D 1	11/01/23		While Drilling	8.5		7.5
Drill Ri	g:	CME 4	<del>1</del> 3		Soil Sampler:		plit Barrel	11/01/23		ore Casing Removed	9.7		7.5
Type: Rod Siz		AW			Hammer Wt: Hammer Fall:	140 lbs.		11/01/23		er Casing Removed	6.4 caved @ 10.5		ut
Roa Siz			DOD	INC C		30 in.	1/1/			er Casing Removed	)		ut
	LO	ı		ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	JF MIATERIA	L	
Depth		_	e Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample	(F	T .	Sample	Sampler	Change		medium			% / some - 20 to 35°		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	T A X		20% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/15	1-1-3-4		medium sti		LAY	, trace fine SAND	, trace ROOTS (	wet,	4
1							meaium su	111)					
1													
2	2	2.0	4.0	SS/16	4-5-6-6		Drown mot	tlad SII T	1;++1.	e CLAY, trace fine	SAND (wat at	:ff)	11
2		2.0	4.0	33/10	4-3-0-0		BIOWII IIIO	illed SIL I	, 11111	e CLAT, trace find	SAND (wei, si	111)	11
3													
3													
4	3	4.0	6.0	SS/21	3-3-2-4		Brown SII	T come (	71 A X	trace fine SAND	(wat madium s	tiff)	5
4	3	4.0	0.0	33/21	3-3-2-4	Brown SILT, some CLAY, trace fine SAND (wet, medium stiff)							
5													
3													
6	4	6.0	8.0	SS/18	4-5-6-7		Brown SII	T trace (	ΊΔΫ	, trace fine SAND	(wet stiff)		11
O		0.0	0.0	55/10	1507		Brown Sil	i, auce c	<i>L1</i> 1 1	, trace time Starts	(wet, still)		- 11
7													
,													
8	5	8.0	10.0	SS/17	6-11-12-12		Brown SIL	T. trace c	mf S	AND, trace fine Gl	RAVEL (wet. ve	erv stiff)	23
								-,		,	(,	-5)	
9													
10	1												
							Augered gr	avelly be	ginni	ng @ 10.5'			
11									,				
12													
13	6	13.0	15.0	SS/20	32-48-45-47		Grey/Brow	n cmf SA	ND a	and mf GRAVEL,	some SILT (moi	st, very	93
							compact)						
14													
15													
16													
17													
10		10.0	10.2	00/14	22.40.50<		C /D	C C P		and COARD	Lul- OH T		50.
18	7	18.0	19.2	SS/14	22-40-50@2"			n mt GRA	AVEI	and cmf SAND,	intile SILT (wet,	very	50+
10							compact)						
19							Augered gravelly beginning @ 19.7'. Auger refusal @ 19.9'						
20	l						Augerea gi				rejusai (a) 19.9		

20 Bottom of Boring @ 19.9'

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks:

			F		orporate Drive	SI	JBSURFA	ACE EX	(PL	ORATION	Boring No.		417
					racuse, NY 13057			BORI			Page No.		of 2
		ociate	200000	i none.	315-701-0522		11201	DOM	. 10	<u> </u>	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		01/23
Client:		Rambo									Date Finished		01/23
Locatio	n:			on Locati		<b>. .</b>	1		~ T		Surface Elev.		38.8'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	R OBSERVAT	TONS	
Driller:		H. Lyc			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra		T	Casing Hammer: Other:			11/01/23		WI-11 - D.:111	6.7		3.0
Inspect Drill Ri		CME 4	rma, EI 15	11	Soil Sampler:	2" OD S	Split Barrel	11/01/23		While Drilling ore Casing Removed	24.1		3.5
Type:	g.	Track	T.J		Hammer Wt:	140 lbs.	-	11/01/23		er Casing Removed	None Noted		out
Rod Siz	æ:	AW			Hammer Fall:	30 in.				er Casing Removed	caved @ 5.4		out
1104 511			ROR	ING S	AMPLES		VI			SIFICATION (	)		
				1		+			11110		or white Extra		
Depth Scale	Sample	_	e Depth (t.)	Type /	Blows on Sampler	Depth of		coarse medium		and 25 to 50	0% / some - 20 to 35	0/	SPT "N"
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			20% / trace - 0 to 10°		or RQD %
0	1	0.0	2.0	SS/15	1-1-3-5	(1 t.)			ine S	AND, trace CLAY			4
							medium sti				,	(,	
1								,					
2	2	2.0	4.0	SS/17	4-6-5-5		Brown SIL	T, trace C	CLAY	, trace mf SAND	(wet, stiff)		11
3													
4	3	4.0	6.0	SS/20	1-3-5-5	Brown SILT, some CLAY, trace fine SAND (wet, stiff)							8
5													
6	4	6.0	8.0	SS/19	4-5-5-6		Cimilan as	a <b>l</b> arra (****		ec.			10
0	4	0.0	0.0	33/19	4-3-3-0		Similar as	above (we	i, Siii	11)			10
7													
,													
8	5	8.0	10.0	SS/20	3-5-6-5		Brown SIL	T. some (	CLAY	Y, trace fine SAND	(wet, stiff)		11
								,		-,	(,)		
9													
10													
11													
12													
10		12.0	150	00/15	2250		D /D	11:1 011 5	г		LCOD ATTER	( ·	0
13	6	13.0	15.0	SS/15	3-3-5-8			aaish SIL'	ı, sor	ne cmf SAND, litt	ie mī GRAVEL	(wet,	8
14							stiff)						
14													
15	1												
1.5													
16													
							Augered gr	ravelly (a).	16.5	<del>,</del> —			1
17							] 3. 28.	., .					
18	7	18.0	20.0	SS/8	11-15-9-7		Grey cmf S	SAND and	l SIL	T, little mf GRAV	EL (wet, mediur	n	24
							compact)						
19													
20							Continued	D 2					
201					i e		H Continuod	on Page	,				

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-417

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Asso	ociates	s, Inc.	Phone: 3	315-701-0522		TEST BURING I	70G	Report No. 28	8062B-03-1223				
					AMPLES	VISUAL CLASSIFICATION OF MATERIAL								
Depth Scale (Feet)	Sample No.	Sample (F From		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %				
20							Continued from Page 1							
21														
22														
23	8	23.0	25.0	SS/19	35-42-42-42		Grey cmf SAND, some SI compact)	LT, little mf GRA	VEL (moist, very	84				
24							1 /							
25							Auger refusal @ 26.4'							
26							Bottom of Boring @ 26.4'							
27														
28														
29														
30														
31														
32														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	<b>418</b> of 2
		ociate		T Hone.	315-701-0522	_[	1131	DOM	U	LUU	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		31/23
Client:		Rambo									Date Finished		31/23
Locatio	n:		_	on Locati							Surface Elev.		5.4'
				DS OF	INVESTIGATIO				GI	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyc			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra		_	Casing Hammer:								
Inspect			rma, EI	ΙΤ	Other:			10/31/23		While Drilling	11.0		2.5
Drill Ri	g:	CME 4	15		Soil Sampler:		Split Barrel	10/31/23		ore Casing Removed	13.0		7.5
Type:		Track			Hammer Wt:	140 lbs.		10/31/23		ter Casing Removed	5.3		out
Rod Siz		AW			Hammer Fall:	30 in.		10/31/23		ter Casing Removed	caved @ 11.4		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°		RQD %
0	1	0.0	2.0	SS/18	1-1-3-5				LAY	Y, trace fine SAND,	, trace ROOTS (	moist,	4
							medium sti	iff)					
1													
2	2	2.0	4.0	SS/17	3-5-5-5		Brown mo	ttled SILT	, trac	ce CLAY, trace fine	e SAND (moist,	stiff)	10
3													
4	3	4.0	6.0	SS/22	2-2-3-4		Brown mot	ttled SILT	`, litt	le CLAY, trace fine	SAND (wet, m	edium	5
							stiff)			,			
5							<i>'</i>						
6	4	6.0	8.0	SS/24	5-7-7-6		Brown SIL	T, trace C	CLAY	Y, trace fine SAND	(wet, stiff)		14
										,			
7													
8	5	8.0	10.0	SS/12	4-6-6-6		Brown/Gre	ev mottled	SIL	T, little CLAY, trac	e fine SAND (v	vet.	12
							stiff)	,		,	,	,	
9													
10													
11													
						1							
12						1							
						1							
13	6	13.0	15.0	SS/16	8-9-7-4		Grev SILT	and CLA	Υ(w	vet, very stiff)			16
				-2.10		1	,	011	- ("	.,			
14													
••						1							
15	1												
1.5						1							
16													
10						1							
17						1							
1 /						1							
18	7	18.0	20.0	SS/20	2-2-1-2	1	Grev CLA	V and CII	т 1;	ittle cmf SAND, tra	ce fine GRAVE	I (wet	3
10	_ ′	10.0	∠0.0	33/20	2-2-1-2		soft)	ı anu sil	JI, II	inic ciii sand, ifa	CC IIIIC GRAVE	L (wei,	
10						1	SOII)						
19						1							
20	4						G	D 1					

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

Boring No. B-418
Page No. 2 of 2
Report No. 28062B-03-1223

	Ass	ociates	s, Inc.	Phone: 3	315-701-0522		LEST DOKING	LOG	Report No.	28062B-03-122				
	LOG OF BORING SAMPLES Depth Sample Depth Type / Blows on						VISUAL CLASSIFICATION OF MATERIAL							
Depth Scale (Feet)	Sample No.	Sample		Type / Sample Rec. (in.)		Depth of Change (Ft.)	c - coarse m - medium f - fine	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "I					
20	140.	Tiom	10	Rec. (III.)	Ter o menes	(11.)	Continued from Page 1	10.00	20707 Hace - 0 to 107	v RQD				
21							Augered gravelly beginnin	ng @ 21.0'						
22														
23	8	23.0	25.0	SS/12	12-9-10-10		Grey cmf SAND and mf (compact)	GRAVEL, little SI	LT (wet, mediun	n 19				
24														
25 26							Augered hard beginning (	@ 25.9'						
27							Auger refusal @ 27.5'							
28	9	27.5	27.8	SS/2	50@3"		Grey weathered ROCK ch Bottom of Boring @ 27.8'		s (wet)	50+				
29														
30	1													
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45	1													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	Ciate	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	.419 of 2
				I mone.	315-701-0522	<u> </u>	1201	DOIL	.,.		Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		31/23
Client:		Rambo									Date Finished		31/23
Locatio	n:		_	on Locati		N T			-		Surface Elev.		86.1'
<b>D</b> 111				DS OF	INVESTIGATIO		*** **		Gl	ROUNDWATER	OBSERVAT	IONS	
Driller:		H. Lyc			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		K. Cra		T	Casing Hammer:			10/21/22		M1.1 D .11.			
Inspect			rma, EI	1	Other:	211 070 0	1 1'. D 1	10/31/23	D (	While Drilling	9.7		3.0
Drill Ri	g:	CME 4	<del>1</del> 3		Soil Sampler:		Split Barrel	10/31/23		ore Casing Removed	13.9		3.2
Type:		Track AW			Hammer Wt:	140 lbs.		10/31/23	_	ter Casing Removed	None Noted		out
Rod Siz			DAD	ING C	Hammer Fall:	30 in.	X 71	10/31/23		ter Casing Removed	caved @ 9.6		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SSIFICATION C	)F MATERIA	L	T
Depth			e Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/15	1-2-5-6					le mf SAND, trace	CLAY, trace RO	OOTS	7
							(moist, me	dium stiff	<del>.</del> )				
1													
2	2	2.0	4.0	SS/16	7-8-8-8			ttled SILT	Γ, litt	le CLAY, trace fine	e SAND (moist,	very	16
							stiff)						
3													
4	3	4.0	6.0	SS/10	5-5-5-4					CLAY, little cmf S.	AND, trace fine		10
							GRAVEL	(wet, stiff	f)				
5													
6	4	6.0	8.0	SS/21	3-5-8-8		Brown mo	ttled SILT	ſ, tra	ce fine SAND, trac	e CLAY (wet, st	tiff)	13
7													
8	5	8.0	10.0	SS/20	3-5-6-7		Brown SIL	T, trace f	ine S	SAND, trace CLAY	(wet, stiff)		11
9													
10													
11													
12													
		l .	l .										
13	6	13.0	15.0	SS/18	1-3-3-3					CLAY, little cmf S	AND, trace mf		6
							GRAVEL	(wet, med	lium	stiff)			
14													
	4												
15													
16													
										_			
17							Augered gr	ravelly be	ginn	ing @ 17.0'			
		l .	l <u>.</u>										
18	7	18.0	20.0	SS/15	11-12-10-10			SAND and	d mf	GRAVEL, little SI	LT (wet, mediur	n	22
							compact)						
19													
	_												
20		i	i		ī	•	10 1	D 0	•				

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-419

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 Augered hard beginning @ 22.5' 23 8 23.0 23.3 SS/3 50@4" Dark Grey ROCK fragments, trace SILT (wet) 50+ Auger refusal @ 23.2' Bottom of Boring @ 23.2' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

					orporate Drive	SI	J <b>BSURF</b>	ACE EX	KPL(	ORATION	Boring No.		420
					racuse, NY 13057			BORI			Page No.		of 2
		ociate	S DAY	i none.	315-701-0522		11201	DOM	. 10	200	Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		02/23
Client:		Rambo									Date Finished		02/23
Locatio	n:			on Locati		N T	1				Surface Elev.		00.9'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer: Other:	NO Com		11/02/23		While Duilling	18.1	2	3.5
Inspect Drill Ri		CME 5	50V		Soil Sampler:	NQ-Cor	e Split Barrel	11/02/23		While Drilling ore Casing Removed	18.1		3.5
Type:	g.	ATV	)JUA		Hammer Wt:	140 lbs.	-	11/02/23		er Casing Removed	None Noted		out
Rod Siz	·e•	AWJ			Hammer Fall:	30 in.		11/02/23		er Casing Removed	caved @		out
Kou Siz			ROR	ING S	AMPLES	30 m.	VI			SIFICATION C	_		Jut
	LO	1					V 1)	SUAL C	LAS	I	T WATERIA	LL .	
Depth	G 1	_	e Depth (t.)	Type /	Blows on	Depth of		- coarse		1 25 / 50	0// 20/ 25/	./	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Et.)	(Ft.) f - fine little - 10 t				% / some - 20 to 350 0% / trace - 0 to 109		or RQD %
0	1	0.0	2.0	SS/14	1-2-4-6	(11.)		trace fine SAND, t			6		
	1	0.0		22,1.	1 2 . 0		MATERIA						
1													
2	2	2.0	4.0	SS/20	4-4-5-6		Light Brow	noist, stiff)		9			
						Light Brown/Grey SILT, trace fine SAND (moist, stiff)							
3													
4	3	4.0	6.0	SS/16	4-3-3-3		Light Brow	vn SILT, t	race	fine SAND (wet, n	nedium stiff)		6
	4												
5													
	4	( )	0.0	00/17	(7.10.10		G::1	-1					17
6	4	6.0	8.0	SS/17	6-7-10-10		Similar as	above (mo	oist, v	ery stiii)			17
7													
,													
8	5A	8.0	9.5	SS/19	4-3-4-9		Similar as	above (mo	oist. r	nedium stiff)			7
	011	0.0	,	22,19	,								,
9													
	5B	9.5	10.0				Red/Brown	n SILT, lit	tle m	f SAND, little mf	GRAVEL (mois	t)	
10													
11													
12													
12													
13	,	12.5	15.0	00/17	10 11 71		I dala P	CII T 1	:441	of CAND 1'41	.f.CD AMET (	.:	72
1.4	6	13.5	15.0	SS/17	10-11-61		Light Brow hard)	vn SIL1, l	ittle i	mf SAND, little cm	ıı GKAVEL (mo	oist,	72
14							naiu)						
15	†												
1.5													
16													
17													
18													
	7	18.5	20.0	SS/15	3-14-30	Grey SILT, some cmf SAND, little mf GRAVEL (moist, hard)					rd)	44	
19													
<u> </u>													
20	1		ı	i .	i	1	Continued	on Dogo ?	,				1

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-420

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 21 22 23 8 23.5 25.0 SS/18 64-67-82 Grey SILT, little mf SAND, little mf GRAVEL (moist, hard) 149 24 25 Bottom of Boring @ 25.0' 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	6035 Corporate Drive East Syracuse, NY 13057 TEST BORING LOG								Boring No. Page No.		<b>421</b> of 2		
	Ass	ciate	s, Inc.		315-701-0522		TEST	BORI	NG L	.OG	Report No.		3-03-1223	
Project				I mone.	New York	1					Date Started		02/23	
Client:	rvaine.	Rambo		us, Ciay,	New Tork						Date Started  Date Finished		02/23	
Locatio	n·			on Locati	on Plan						Surface Elev.		36.0'	
Locatio	11.		_		INVESTIGATIO	N			GRO	OUNDWATER			0.0	
Driller:		B. Flet		<i>D</i> 5 <b>O</b> 1	Casing:	3 ¼" ID	H.S.A.							
Driller:		R. Cas			Casing Hammer:	0 /4 12		Date		Time	Depth (Ft.)	Casing	g At (Ft.)	
Inspect					Other:	NQ-Cor	·e	11/02/23	V	While Drilling	None Noted	2	2.2	
Drill Ri		CME 5	550X		Soil Sampler:	-	Split Barrel	11/02/23		e Casing Removed	None Noted		2.2	
Type:	J	ATV			Hammer Wt:	140 lbs.	-	11/02/23		Casing Removed	None Noted	(	out	
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		11/02/23	After	Casing Removed	caved @ 12.0	(	out	
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	CLASS	SIFICATION C	F MATERIA	L		
Depth		Sample	e Depth		Blows on			coarse					SPT "N"	
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or	
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %	
0	1A	0.0	1.0	SS/10	WH-2-3-5		Topsoil an	d Organic	er (moist)			5		
1	1B	1.0	2.0			Light Brown/Grey SILT, trace fine SAND (moist, media								
2	2	2.0	4.0	SS/20	5-6-6-5	Light Brown SILT, trace fine SAND (moist, stiff)								
	2	2.0	4.0	33/20	3-0-0-3	Light Brown SILT, trace fine SAND (moist, stiff)								
3														
4	2	4.0	( 0	GG/20	2.4.4.5	Light Brown SILT, trace fine SAND (moist, stiff)								
4	3	4.0	6.0	SS/20	3-4-4-5		Light Brov	vn SILI, t	trace fi	ne SAND (moist,	stiff)		8	
	_													
5														
6	4	6.0	8.0	SS/18	7-6-7-6		Similar as	ahove (m	niet eti	iff)			13	
	-	0.0	0.0	55/10	7-0-7-0		Sillillai as	above (III	0151, 511	111)			13	
7														
8	5	8.0	10.0	SS/20	3-4-4-8		Similar as	above (me	oist, sti	iff)			8	
									,	,				
9														
10														
11														
12														
13														
13	6	13.5	15.0	SS/18	WH-WH-1		Light Grev	SILT, so	me CL	AY, trace cmf SA	AND (wet, verv	soft)	1	
14		13.3	15.0	55/10	***************************************			ZIL1, 50	CL	11, 11000 01111 01	1.15 (oi, voi y	2010)	•	
15														
16														
1.7														
17														
18														
10	7	18.5	20.0	SS/18	4-4-6	Light Grey SILT, little cmf SAND, little cmf GRAVEL (wet, stiff)						t stiff)	10	
19	_ ′	10.5	20.0	55/10	7-4-0		Light Oley	51L1, III	are citil	i sand, iiiic ciii	I GRAVEL (WE	., 51111)	10	
20	1					1	G .: 1	D 6	•					

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-421

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522						TEST BURING I	LOG	Report No. 28	3062B-03-1223
	LOG OF BORING SAMPLES						VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Continued from Page 1			
22	8	22.1	22.2	SS/1	100@1"		Auger refusal @ 22.1' Grey weathered ROCK ch Bottom of Boring @ 22.2'	nips (moist)		100+
23 24										
25										
26										
27 28										
29										
30										
31										
33										
34										
35 36										
37										
38										
39										
41										
42										
43										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	Œ	East Sy	orporate Drive racuse, NY 13057	SU			KPLORATION NG LOG	Boring No. Page No.		<b>422</b> of 2		
		ociate		I mone.	315-701-0522		1631	DUKI	NG LUG	Report No.	28062B	-03-1223		
Project	Name:			us, Clay,	New York					Date Started	11/0	3/23		
Client:		Rambo	oll							Date Finished	11/0	3/23		
Locatio	n:		_	on Locati						Surface Elev.		2.0'		
		ME	THO	DS OF	INVESTIGATIO	N			GROUNDWATER	R OBSERVAT	TONS			
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	Date	Time	Depth (Ft.)	Casing	At (Ft.)		
Driller:		R. Cas	atelli		Casing Hammer:						_			
Inspect					Other:	NQ-Cor		11/03/23	While Drilling	6.4		3.5		
Drill Ri	g:	CME 5	550X		Soil Sampler:		Split Barrel	11/03/23	Before Casing Removed	N/A		2.4		
Type:		ATV			Hammer Wt:	140 lbs.		11/03/23	After Casing Removed	N/A		ut		
Rod Siz		AWJ			Hammer Fall:	30 in.		11/03/23	After Casing Removed	N/A		ut		
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LASSIFICATION (	OF MATERIA	<u>L</u>			
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"		
Scale	Sample		t.)	Sample	Sampler	Change	m -	medium	and - 35 to 50	0% / some - 20 to 35	%	or		
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 109		RQD %		
0	1	0.0	2.0	SS/14	2-1-2-2		Reworked	Material	; Brown silt, cmf grave	l, cmf sand (moi	st)	3		
1						<b> </b>	<b>↓</b>							
_	_											_		
2	2	2.0	4.0	SS/18	3-3-4-4		Light Brow	medium stiff)		7				
						Light Brown SILT, trace fine SAND (moist, medium stiff)								
3														
4	3	4.0	6.0	SS/17	4-3-3-4		Light Brow	vn SILT, t	race fine SAND (moist,	medium stiff)		6		
5														
_														
6	4	6.0	8.0	SS/19	4-4-5-4		Similar as	above (we	et, stiff)			9		
_														
7														
0	_	0.0	10.0	00/14	4.4.2.5		G: '1	1 (	1: .:00			7		
8	5	8.0	10.0	SS/14	4-4-3-5		Similar as	above (we	et, medium stiff)			7		
0														
9														
10	-						See Remar	1. 1						
10							see Kemar	K I						
11														
11														
12														
12														
13														
13	6	13.5	15.0	SS/14	2-2-2		Light Grev	SILT tra	ace fine SAND (wet, me	edium stiff)		4		
14	~	13.3	15.0	55/17			Light Grey	~111, 110	Imo Si ii ib (wei, me					
15	1													
16														
17														
18						Light Grey SILT and cmf GRAVEL, little cmf SAND (wet, very								
	7	18.5	20.0	SS/10	4-9-8							17		
19							stiff)			, ,	-			
	]													
20	1	I	I	1	Ī	1	la .: 1	D 0						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

Remarks: 1. Installed well at depth of 10.0' with 5.0' screen.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-422

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches f - fine little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) 20 Continued from Page 1 21 22 8 22.4 22.4 SS/0 100@0" No Recovery - Auger refusal @ 22.4' 100 +Bottom of Boring @ 22.4' 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SUBSURFACE EXILORATION							<b>423</b> of 1
	Asso	ciate	s, Inc.		315-701-0522		TEST	BORI	NG	LOG	Page No. Report No.		3-03-1223
Project	Name:	Micror	Camp		New York	1					Date Started		23/23
Client:	- 100	Rambo		,,							Date Finished		23/23
Locatio	n:			n Locati	on Plan						Surface Elev.		01.0'
	•				INVESTIGATIO	N			GF	ROUNDWATER			
Driller:		H. Lyo		55 01	Casing:	3 ¼" ID	H.S.A.		<u> </u>				
Driller:		K. Cra			Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:		rma, EI	T	Other:			10/23/23		While Drilling	7.3	8	3.0
Drill Ri		CME 4	15		Soil Sampler:	2" OD S	Split Barrel	10/23/23	Befo	ore Casing Removed	17.9		18
Type:	0	Track			Hammer Wt:	140 lbs.	-	10/23/23		er Casing Removed	5.0	(	out
Rod Siz	e:	AW			Hammer Fall:	30 in.		10/23/23		er Casing Removed	caved @ 7.6	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION (	OF MATERIA	L	
Danth			e Depth		Blows on								SPT "N"
Depth Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		coarse medium		and - 35 to 50	0% / some - 20 to 35	0/0	or or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1A	0.0	0.7	SS/17	1-1-3-3	` ′			and	Organic Material (			4
	1B	0.7	2.0							, trace fine SAND		stiff)	1
1											· · · · · · · · · · · · · · · · · · ·		
2	2	2.0	4.0	SS/15	4-3-5-7		Brown mot	tled SILT	, littl	le CLAY, trace fine	e SAND (wet, st	iff)	8
3													
4	3	4.0	6.0	SS/20	6-8-6-9		Brown SIL	T, little C	LAY	, trace fine SAND	(wet, stiff)		14
						Brown SILT, little CLAY, trace fine SAND (wet, stiff)							
5													
6	4	6.0	8.0	SS/24	7-11-15-22				LAY	, trace fine SAND	, trace mf GRAV	/EL	26
_							(wet, very	stiff)					
7													
	_	0.0	100	GG /10	0.15.10.10		G /D		) ID	1 CODATES	GIT TO (		2.5
8	5	8.0	10.0	SS/19	9-15-10-10				ND a	and mf GRAVEL,	some SILT (wet	,	25
0							medium co	. /					
9							Augered gr	ravelly be	gınnı	ing (a) 8.3'			
10													
10													
11													
11													
12													
1 12													
13	6	13.0	13.8	SS/10	23-50@4"		Grey weath	nered RO	CK fi	ragments, little SIL	T, little cmf GR	AVEL	50+
			1				(moist)		2	<i>G</i> ,	,	_ <b></b>	
14													
15	1												
16													
							Augered ho	ard begini	ning	@ 16.8'			
17													
18	7	18.0	18.4	SS/5	50@5"			nered RO	CK fi	ragments, some mf	GRAVEL, trace	SILT	50+
							(moist)						
19							Auger refu			-			
20							Bottom of	Boring @	18.6	<b>,</b> '			

	6035 Corporate Drive						J <b>BSURF</b> A	ACE EX	KPLORATION	Boring No.		424		
					racuse, NY 13057				NG LOG	Page No.		of 2		
		ociates	S. Land	i none.	315-701-0522		11231	DOM	NG LOG	Report No.	28062B	3-03-1223		
Project 1	Name:	Micror	n Camp	us, Clay,	New York	-				Date Started	10/1	19/23		
Client:		Rambo	oll							Date Finished	10/1	19/23		
Location	1:	See Ex	ploration	on Locati	on Plan					Surface Elev.	40	3.0'		
		ME	THO	DS OF	INVESTIGATIO	ON			GROUNDWATER	OBSERVAT	IONS			
Driller:		H. Lyo	n		Casing:	3 ¼" ID	H.S.A.	Data	Time	Depth (Ft.)	Cosina	A 4 (E4.)		
Driller:		K. Cra	ndall		Casing Hammer:			Date	rime	<b>Depth (Ft.)</b>	Casing	At (Ft.)		
Inspecto	r:	A. Sha	rma, EI	T	Other:			10/19/23	While Drilling	12.6	13	2.5		
Drill Rig	g:	CME 4	15		Soil Sampler:	2" OD S	plit Barrel	10/19/23	Before Casing Removed	None Noted	20	0.3		
Type:		Track			Hammer Wt:	140 lbs.		10/19/23	After Casing Removed	14.1	C	out		
Rod Size	e:	AW			Hammer Fall:	30 in.		10/19/23	After Casing Removed	caved @ 16.0	C	out		
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFICATION (	F MATERIA	L			
Depth		Sample	e Depth		Blows on		0	coarse				SPT "N"		
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium	and - 35 to 50	0% / some - 20 to 35	%	or		
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 109		RQD %		
0	1A	0.0	0.5	SS/17	1-3-5-5	(- 1.)			: Material (moist)		_	8		
~	1B	0.5	2.0						e SAND, trace CLAY (	moist, stiff)		<b>1</b> ~		
1	1.5	0.5	2.0				Brown SIE	1110131, 31111)						
1														
2	2	2.0	3.6	SS/16	5-5-5-50@1"		Brown emf	FSAND (	some SILT, little mf GR	AVEL (wet me	dium	10		
2	2	2.0	3.0	33/10	5-5-5-50(W)1		AVEL (wet, me	alulli	10					
2						compact)								
3														
				9910	<b>5</b> 0 0 0 0									
4	3A	4.0	4.0	SS/0	50@0"		No Recove					50+		
	3B	4.0	6.0	SS/19	3-6-7-7			f SAND a	and SILT, little mf GRA	VEL (wet, medi	um	13		
5							compact)							
									ginning @ 4.0'					
6	4	6.0	8.0	SS/14	4-5-12-10		Grey/Brow	n cmf SA	AND and SILT, little mf	GRAVEL (wet,	medium	17		
							compact)							
7														
8	5	8.0	10.0	SS/21	7-8-9-11		Light Brow	n SILT, s	some cmf SAND, little i	nf GRAVEL (w	et, very	17		
							stiff)			`	•			
9														
-														
10														
11														
12														
12														
13	6	13.0	15.0	SS/18	19-29-33-32		Grey cmf	SAND so	me SILT, some mf GRA	VFI trace CI	ΔV (wet	62		
13	U	13.0	13.0	33/10	17-47-33-34				inc oil i, some im GRA	avel, nace CL	AI (WEL,	02		
1.4							very compa	101)						
14														
1.5														
15														
1.														
16							],							
							Augered ho	ard begin	ning @ 16.5'					
17														
							Dark Grey/Black weathered ROCK fragments, some SILT, little							
18	7	18.0	18.8	SS/10	23-50@4"				eathered ROCK fragmer	its, some SILT, l	little	50+		
							CLAY (we	t)						
19							]							
20				I	I		la .: 1	ъ с				I		

Remarks: 1. Auger Refusal @ 4.0', boring was offset about 3.0' north and sampled starting from depth of 4.0'

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-424

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	<b>Associates, Inc.</b> Phone: 315-701-0522						TEST DOMING		Report No.	28062B-03-12	223
	LOG OF BORING SAMPLES						VISUAL CLAS	SIFICATION (	OF MATERIA	L	
Depth			e Depth	Type /	Blows on	Dorth - C	c - coarse			ı	Γ "N"
Scale	Sample		t.)	Sample	Sampler	Depth of Change	m - medium	and - 35 to 50	0% / some - 20 to 35%		or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f - fine		20% / trace - 0 to 10%		D %
20							Continued from Page 1				
	_						Auger refusal @ 20.3'				
21	8	20.3	21.0	SS/6	23-50@2"		Dark Grey weathered RO	CK fragments, sor	ne cmf SAND, so	ome 50	<del>1</del> 0+
22							mf GRAVEL (moist)				
22							Bottom of Boring @ 21.0'				
23											
23											
24											
25											
26											
27											
21											
28											
29											
30											
31											
31											
32											
33											
34											
25											
35											
36											
50											
37											
38											
20											
39											
40	ļ										
+∪											
41											
•											
42											
43											
4.4											
44											
45	1										
		•	•	•			•				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	Ę	East Syr	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION	Boring No. Page No.		<b>425</b> of 2
	Ass	ociates	s, Inc.	Phone:	315-701-0522		1 E S I	DOKI	NG	LUG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York	-					Date Started	10/	19/23
Client:		Rambo	oll								Date Finished	10/	19/23
Locatio	n:		_	on Locati							Surface Elev.		1.1'
		ME	THO	DS OF	INVESTIGATIO	N			$\mathbf{G}$	ROUNDWATER	R OBSERVAT	IONS	
Driller:		H. Lyo	n		Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Cosine	At (Ft.)
Driller:		K. Cra	ndall		Casing Hammer:			Date			Deptii (Ft.)	Casing	; At (Ft.)
Inspect	or:		rma, El	T	Other:			10/19/23		While Drilling	13.7	1	3.0
Drill Ri	ig:	CME 4	15		Soil Sampler:		Split Barrel	10/19/23		Fore Casing Removed	None Noted	1	9.1
Type:		Track			Hammer Wt:	140 lbs.		10/19/23		ter Casing Removed	17.1	(	out
Rod Siz		AW			Hammer Fall:	30 in.		10/19/23		ter Casing Removed	caved @ 19.3		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LA	SSIFICATION (	OF MATERIA	L	
Depth		Sample	e Depth		Blows on	5 1 0	C -	coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches						20% / trace - 0 to 109		RQD %
0	1A	0.0	0.5	SS/16	1-3-5-9		Topsoil an	d Organic	terial (moist)			8	
	1B	0.5	2.0						le fine SAND (moi	st, stiff)			
1									`	,			
2	2	2.0	4.0	SS/18	7-11-17-17		Brown SIL	T, some f	SAND (moist, very	stiff)		28	
						Brown SILT, some fine SAND (moist, very stiff)							
3													
4	3	4.0	6.0	SS/15	7-6-10-10		Brown/Red	ldish cmf	SAN	ND, some SILT, sor	ne mf GRAVEL	(wet,	16
							medium co			,		,	
5	1							1 /					
							Augered gr	avellv be	ginn	ing @ 6.0'			
6	4	6.0	8.0	SS/17	14-14-14-32					of GRAVEL, little	SILT (wet, medi	um	28
							compact)			,	,		
7							r						
8	5	8.0	10.0	SS/17	6-10-7-9		Grev SILT	and cmf	SAN	D, little mf GRAV	EL (wet, very sti	iff)	17
										,	, ,	,	
9													
10													
11													
12													
13	6	13.0	14.4	SS/13	23-49-50@5"		Dark Grey	SILT and	l cm	f SAND, some CLA	Y, some mf GR	AVEL	50+
							(moist, har			•	-		
14													
15													
16													
17													
						Augered hard beginning @ 17.7'							
18	7	18.0	19.9	SS/22	25-40-38-50@5"	Grey cmf SAND and mf GRAVEL, some weathered ROCK					78		
				1						vet, very compact)			
19							,		ζ.	, , ,			
20	1		Ī	I			la	D 0					Ī

CM	E
Associates,	Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-425

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Associates, Inc. Phone: 315-701-0522						LEST BURING	LUG	Report No.	28062B-03-1223
	LOG OF BORING SAMPLES						VISUAL CLAS	SIFICATION (		
Depth		Sample	Depth	Type /	Blows on	Depth of	c - coarse			SPT "N"
Scale (Feet)	Sample No.	From	t.) To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)	m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	
20							Continued from Page 1			
21							Auger refusal @ 20.1' Bottom of Boring @ 20.1'			
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45	-									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 Co	orporate Drive	SI	JBSURF	ACE EX	PI.	ORATION	Boring No.	В-	426
		IV	Ę		racuse, NY 13057			BORI			Page No.	1 (	of 2
	Asso	ociates	s, Inc.	Phone:	315-701-0522		1651	DUKI	161	LUG	Report No.	28062B	3-03-1223
Project	Name:			us, Clay,	New York	-					Date Started		16/23
Client:		Rambo									Date Finished		17/23
Locatio	n:			on Locati		N 3 7			- CP	OLD DAY A TER	Surface Elev.		0.5'
D. 111				DS OF	INVESTIGATIO		II C .		GR	OUNDWATER	OBSERVAT	IONS	
Driller: Driller:		G. Rick			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect		K. Cas	atem		Other:	NQ-Cor	e	10/16/23		While Drilling	9.2	19	9.0
Drill Ri		CME 5	50X		Soil Sampler:	-	plit Barrel	10/17/23		re Casing Removed	8.3		19
Type:	•	ATV			Hammer Wt:	140 lbs.	-	10/17/23		er Casing Removed		C	out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		10/17/23	Afte	er Casing Removed	caved @	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	Tumo /	Blows on	Donth of	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 359	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%	<b>6</b>	RQD %
0	1A	0.0	0.5	SS/19	1-4-5-5	<b> </b>				erial (moist)			9
,	1B	0.5	2.0				_		race 1	fine SAND, trace C	ORGANIC MAT	ERIAL	
1							(moist, stif	1)					
2	2	2.0	4.0	SS/20	4-4-4-5		Light Brow	m SII T t	race i	fine SAND (moist,	stiff)		8
		2.0	7.0	35/20	4-4-4-3		Light Diow	ni Silli, t	race i	ille SAND (Illoisi,	Still)		0
3													
						Light Brown SILT trace fine SAND (wet_stiff)							
4	3	4.0	6.0	SS/19	3-6-5-5	Light Brown SILT, trace fine SAND (wet, stiff)							11
						Light Brown SILT, trace fine SAND (wet, stiff)							
5													
_													_
6	4	6.0	8.0	SS/16	5-4-3-6		Light Brow	n SILT, t	race 1	fine SAND (wet, m	edium stiff)		7
7													
,													
8	5	8.0	10.0	SS/17	4-5-6-5		Light Grev	SILT. tra	ce fir	ne SAND (wet, stif	f)		11
		0.0	10.0	22,1,			Light 910)	5121, 114			-)		
9													
10													
11													
12													
12													
13													
1.5													
14	6	14.0	16.0	SS/22	2-1-2-1		Light Grey	SILT, tra	ce fir	ne SAND (wet, sof	t)		3
							]	*		` '	•		
15													
16	7	16.0	18.0	SS/8	1-4-4-13					eathered ROCK fra	gments, little cn	nf	8
17							GRAVEL			(2) 17.01			
17							Augered gi	avelly beg	gınni	ng @ 1/.0°			
18													
10													
19	8	19.0	21.0	SS/12	2-2-6-11		Grey/Black	SILT, so	me c	mf GRAVEL, little	weathered ROC	CK	8
							fragments			,			
20	1	Ī				I	Continued						

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-426** 2 of 2 Page No. Report No. 28062B-03-1223

VISUAL CLASSIFICATION OF MATERIAL **LOG OF BORING SAMPLES** Sample Depth SPT "N" Depth Blows on c - coarse Depth of Type / (Ft.) Sample Sampler and - 35 to 50% / some - 20 to 35% Scale m - medium Sample Change or From ROD % (Feet) No. To Rec. (in.) Per 6 Inches (Ft.) f - fine little - 10 to 20% / trace - 0 to 10% 20 Continued from Page 1 21 22 Auger refusal @ 22.5'. Set up to core. 23 R1 22.5 27.5 C/60 NQ-Core Dark Grey/Black SHALE with interbedded Dolostone layers 20% (<1/8" to 1 1/2" thick) throughout, highly weathered, laminated to 24 thinly bedded, medium hard. Recovery: 60''/60'' = 100%25 RQD: 12"/60" = 20% 6 Pieces, 36" Chips and fragments 26 0.0' to 2.0', 2:45 min/ft, 2.0' to 4.0', 2:07 min/ft, and 4.0' to 5.0', 3:38 min/ft, no water loss 27 Coring conducted in 4th gear, 1800 rpm, 500 psi down pressure. 27.5 Dark Grey/Black DOLOSTONG with interbedded Shale layers 83% R2 32.5 C/60 NQ-Core (<1/8" to 2") throughout, slightly weathered, laminated to thinly 28 bedded, medium hard to hard. 29 Recovery: 60''/60'' = 100%RQD: 50"/60" = 83% 30 18 Pieces, 1" Chips and fragments 1:50 min/ft, no water loss 31 Coring conducted in 4th gear, 1800 rpm, 500 psi down pressure. 32 Bottom of Boring @ 32.5' 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 C	orporate Drive	SI	JBSURFA	ACE EX	PLO	ORATION	Boring No.	В-	427
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 2
	Asso	ociates	Name of the last o	i none.	315-701-0522		11231	DOM	101	LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		16/23
Client:		Rambo									Date Finished		17/23
Locatio	n:			on Locati		<b></b>	1		<u> </u>	OLD ID III A SEED	Surface Elev.		00.9'
				DS OF	INVESTIGATIO		*** 0		GR	OUNDWATER	OBSERVAT	IONS	
Driller: Driller:		G. Rich			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect		K. Cas	atem		Other:	NQ-Cor	e	10/16/23		While Drilling	14.8	1	4.0
Drill Ri		CME 5	50X		Soil Sampler:	-	plit Barrel	10/17/23		re Casing Removed	9.3		3.9
Туре:	•	ATV			Hammer Wt:	140 lbs.	-	10/17/23		er Casing Removed	-	(	out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		10/17/23		er Casing Removed	caved @	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth		Sample	Depth	T/	Blows on	D. d. c	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 359	<b>%</b>	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10%	6	RQD %
0	1A	0.0	0.5	SS/19	1-3-5-6					erial (moist)			8
	1B	0.5	2.0				Light Brow	n SILT, t	race 1	fine SAND (moist,	stiff)		
1													
_		2.0	4.0	GG/10	4.6.6.5		T 1 4 D	CII T		C CAND (	ST ASZ (	.00	10
2	2	2.0	4.0	SS/19	4-6-6-5		Light Brow	n SILI, t	race 1	fine SAND, trace C	LAY (moist, sti	III)	12
3													
3													
4	3	4.0	6.0	SS/18	1-4-5-6	Light Brown SILT, trace fine SAND (moist, stiff)							9
_		4.0	0.0	55/10	1-4-3-0		Light Diow	, ii SiLi, ti	acci	inic 5711 (moist,	Still)		
5													
6	4	6.0	8.0	SS/20	6-5-5-5		Light Brow	n SILT, t	race 1	fine SAND (moist,	stiff)		10
7													
	_		400	aa ( <b>a</b> o			* * 1 . 5	277 m			0.00		
8	5	8.0	10.0	SS/20	2-3-4-5		_		race 1	fine SAND, trace n	nf GRAVEL (m	oist,	7
0							medium sti	111)					
9													
10	1												
11													
12													
13													
1 /	,	140	16.0	00/10	1 2 2 1		I iala C	CII T	~	o CAND ( +	din c4:60		4
14	6	14.0	16.0	SS/19	1-2-2-1		Light Grey	SIL1, tra	ce fir	ne SAND (wet, med	uium stiff)		4
15	1												
13													
16													
17													
18													
1.0	_	100	21.0	90.115	501022		D 1 ~	CIL E		1 1000			10
19	7	19.0	21.0	SS/12	5-9-10-23			SILT and	weat	hered ROCK fragr	nents (wet, very	stiff)	19
20	1						stiff)	on Dogo 2					

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-427

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

700	Ass	ociates	s, Inc.	Phone:	315-701-0522		LEST BURING L	JUG	Report No.	28062B-03-1223	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample	e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%		
20 21							Continued from Page 1				
22											
<ul><li>23</li><li>24</li></ul>	8	23.9	23.9	SS/0	100@0"		Auger refusal @ 23.9' No Recovery Bottom of Boring @ 23.9'			100+	
25							Bottom of Boring (@ 23.9				
26											
<ul><li>27</li><li>28</li></ul>											
29											
30											
31 32											
33											
35											
36											
37											
38 39											
40											
41											
42 43											
44											
45	1										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

						_							
					orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No.		428
					racuse, NY 13057			BORI			Page No.		of 2
		ociates	No.	I none.	315-701-0522		11201	DOM	10	LOG	Report No.		-03-1223
Project 1	Name:			us, Clay,	New York						Date Started		23/23
Client:		Rambo									Date Finished		23/23
Location	n:			n Locati			1		~		Surface Elev.		2.7'
B 111				DS OF	INVESTIGATIO		*** **		GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		B. Flet R. Cas			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto		R. Cas	atem		Casing Hammer: Other:	NO Com		10/23/23		While Drilling	10.5	1	5.0
Drill Rig		CME 5	50X		Soil Sampler:	-	-			ore Casing Removed	13.7		2.2
Type:	<b>5</b> •	ATV	3021		Hammer Wt:	140 lbs.	-	10/23/23		er Casing Removed	None Noted		out
Rod Size	e:	AWJ			Hammer Fall:	30 in.		10/23/23		er Casing Removed	caved @ 3.0'		out
			BOR	ING SA	AMPLES		VIS			SSIFICATION C	)		
- 1	LO	T	e Depth	110 52					<b>D</b> 110		ZI WIZITERIZI		an
Depth Scale	Sample	Sample (F	_	Type /	Blows on Sampler	Depth of		coarse medium		and 25 to 50	1% / some - 20 to 359	0/.	SPT "N"
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			20% / trace - 0 to 10%		or RQD %
0	1A	0.0	0.5	SS/17	7-3-6-7	()			Mate	erial (moist)	· ·		9
	1B	0.5	2.0							fine SAND (moist,	stiff)		Î
1													
2	2	2.0	4.0	SS/17	7-8-8-8		Light Brow	n SILT, t	race	fine SAND, trace (	CLAY (moist, ve	ery stiff)	16
3													
				22/10			*	~** m		m			
4	3	4.0	6.0	SS/18	3-3-5-5	Light Brown SILT, trace fine SAND (moist, stiff)				8			
-													
5													
6	4	6.0	8.0	SS/19	4-4-4		Similar as	ahove (mo	vict c	rtiff			8
U	7	0.0	0.0	55/17	7-7-7		Sillillai as	above (III	<i>n</i> si, s	, iiii)			0
7													
,													
8	5	8.0	10.0	SS/19	4-4-4-6		Similar as	above (mo	oist, s	stiff)			8
										,			
9													
10													
11													
10													
12													
13													
13	6	13.5	15.0	SS/18	1-1-1		Light Brow	m SII T +	race	CLAY, trace fine S	SAND (wet soft	)	2
14	U	13.3	13.0	20/10	1-1-1		Light DIOW	л эњ1, l	iace	CLAI, Have line S	MEI, SUIL	,	
17													
15	7	15.0	17.0	SS/20	WH-2-3-8		Light Brow	n/Grev S	ILT.	some CLAY, little	mf GRAVEL (v	vet.	5
	,	-2.0	_,.0	-2.20			medium sti		,		(V		
16								,					
17													
18													
	8	18.5	20.0	SS/9	13-7-18					e SILT, little weath	nered ROCK frag	gments	25
19							(wet, medi	um compa	ict)				
20							Continued	D 2					

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-428

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

<b>"</b> ("(	Ass	ociates	s, Inc.	Phone:	315-701-0522		LEST BURING L	AUG	Report No.	28062B-03-1223	
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.	Sample	e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N	
20							Continued from Page 1				
21							Average of the 10 22 21				
<ul><li>22</li><li>23</li></ul>	9	22.2	22.2	SS/0	100@0"		Auger refusal @ 22.2' No Recovery Bottom of Boring @ 22.2'			100+	
24							Section of Secting (6) 22.2				
25											
26											
27											
28											
29											
30											
32											
33											
34											
35	-										
36											
37											
38 39											
40											
41											
42											
43											
44											
45	1										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

												T	
					orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PLO	ORATION	Boring No.		429
	Acc	ciate	lne.		racuse, NY 13057			BORI			Page No.		of 2
	100000		S DAY	i none.	315-701-0522						Report No.		3-03-1223
Project	Name:			us, Clay,	New York						Date Started		18/23
Client:		Rambo		T '	on Dlon						Date Finished		18/23
Locatio	11;			on Locati		N			CD	OUNDWATER	Surface Elev.		0.8'
Driller: G Richards Casing: 3 1/1 ID H S A													
Driller:		R. Cas			Casing Hammer:	3 /4 ID	11.5.74.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	10 000			Other:			10/18/23		While Drilling	18.2	1	9.0
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	plit Barrel	10/18/23		re Casing Removed	13.8	2	1.7
Type:		ATV			Hammer Wt:	140 lbs.		10/18/23	Afte	er Casing Removed	13.7	C	out
Rod Siz		AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @ 15.3		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	OF MATERIA	L	_
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	r	Sample	Sampler	Change		medium			% / some - 20 to 35°		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/15	1-2-2-5		stiff)	n SILI, t	race 1	fine SAND, trace I	ROOTS (moist, i	medium	4
1							Suii)						
1													
2	2	2.0	4.0	SS/18	5-4-5-5		Light Brow	n SILT. t	race 1	fine SAND (moist,	stiff)		9
							8	,		,	,		
3													
4	3	4.0	6.0	SS/17	2-2-2-3		Light Brow	n SILT, t	race f	fine SAND (moist,	medium stiff)		4
5													
6	4	6.0	8.0	SS/18	3-5-4-4		Similar as	ahova (m	sict ~	tiff)			9
0	†	0.0	0.0	33/10	J-J- <del>4-4</del>		Similal as	aoove (IIIC	лы, 8	u11 <i>)</i>			,
7													
· .													
8	5	8.0	10.0	SS/20	2-4-4-6		Similar as	above (mo	oist, s	tiff)			8
								•					
9													
1.0													
10													
11													
11													
12													
13													
14	6	14.0	16.0	SS/18	2-5-6-6		_	n SILT, 1	ittle r	nf GRAVEL, trace	e fine SAND (me	oist,	11
1.5							stiff)						
15													
1.6													
16													
17													
1 '													
18													
19	7	19.0	21.0	SS/13	7-7-11-18		Dark Grey	weathere	d RO	CK fragments, littl	e SILT (wet)		18
20	I	I	I	I	Ī	1	Continued	on Dogo 7					Ī

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-429** Page No. 2 of 2 Report No. 28062B-03-1223

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Type / Depth of (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or From To Per 6 Inches little - 10 to 20% / trace - 0 to 10% RQD % (Feet) No. Rec. (in.) (Ft.) f - fine 20 Continued from Page 1 Auger refusal @ 21.7' 21 8 No Recove<u>ry. See Remark 1</u> 21.7 21.7 SS/0 100@0" 100 +22 Bottom of Boring @ 21.7' 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

1. ROCK chips on spoon top Remarks:

	C	V	ΙĘ	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	430 of 2
		ociates		i mone.	315-701-0522		11231	DOM	1101	LOG	Report No.	28062E	3-03-1223
Project	Name:			us, Clay,	New York						Date Started		19/23
Client:		Rambo									Date Finished		19/23
Locatio	n:		_	on Locati							Surface Elev.		90.2'
				DS OF	INVESTIGATIO				GR	OUNDWATER	OBSERVAT	TONS	
Driller:		J. Win			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:						• ` ` ′		
Inspecto		C) (T) (			Other:	011 OD 6	1 1' D 1	10/19/23		While Drilling	18.2		9.0
Drill Ri	g:	CME 5	50X		Soil Sampler:		Split Barrel	10/19/23		re Casing Removed	13.8		1.7
Type:		ATV			Hammer Wt:	140 lbs.		10/19/23		er Casing Removed	13.7		out
Rod Siz		AWJ	DAD	ING C	Hammer Fall:	30 in.	X 71 (	10/19/23		er Casing Removed	caved @ 15.3		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	)F MATERIA	L	T
Depth Scale	Sample		e Depth t.)	Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and - 35 to 50	0% / some - 20 to 35	%	SPT "N" or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°	%	RQD %
0	1A	0.0	0.5	SS/14	2-7-6-7					erial (moist)			13
1	1B	0.5	2.0				Light Brow (moist, stif	-	Grey S	SILT, trace fine SA	ND, trace CLA	Y	
2	2	2.0	4.0	SS/19	2-4-6-7		Light Brow (moist, stif	_	Grey S	SILT, trace fine SA	ND, trace CLA	Y	10
3													
4	3	4.0	6.0	SS/20	7-3-3-2	Light Brown SILT, trace fine SAND (moist, medium stiff)					6		
5													
6	4	6.0	8.0	SS/17	4-4-4		Light Brow	vn SILT, t	trace f	fine SAND (moist,	stiff)		8
7													
8	5	8.0	10.0	SS/20	4-4-6-7		Similar as	above (mo	oist, s	tiff)			10
9													
10													
11													
12													
13	6	13.5	15.0	SS/15	1-3-2		Light Gray	CII T two	nce fir	ne GRAVEL, trace	fine SAND (m	oiet	5
14		13.3	13.0	33/13	1-3-2		medium sti		ice III	ic GRAVEL, Hace	THIC SAIND (MC	J151,	
15													
16													
17													
18													
19	7	18.5	20.0	SS/12	13-22-15		Dark Grey	weathere	d RO	CK fragments, littl	e SILT (wet)		37
20								D 0					

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-430

 Page No.
 2 of 2

 Report No.
 28062B-03-1223

	Ass	ociate	s, Inc.	Phone: 3	315-701-0522		TEST DOMING	LOG	Report No.	28062B-03-122
		G OF	BOR	ING SA	MPLES		VISUAL CLAS	SIFICATION (		
Depth Scale (Feet)	Sample No.	Sample	e Depth	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 5	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT '
20							Continued from Page 1			
22 23										
24	8	23.5	25.0	SS/13	18-12-19		Dark Grey weathered RO	CK fragments, litt	le SILT (wet)	31
25 26										
27	9	27.3	27.3	SS/0	100@0"		No Recovery - Auger refu. Bottom of Boring @ 27.3'	sal @ 27.3'		100
28 29										
30										
31										
32 33										
34										
35										
<ul><li>36</li><li>37</li></ul>										
38										
39 40										
41										
42										
43 44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod



# PRESENTATION OF SITE INVESTIGATION RESULTS

# Proposed Micron Plant Clay, New York

#### Prepared for:

**CME Associates, Inc.** 

ConeTec Job No: 23-53-26729

Project Start Date: 23-Oct-2023 Project End Date: 28-Oct-2023 Report Date: 23-Nov-2023

#### Prepared by:

#### ConeTec Inc.

436 Commerce Lane, Unit C, West Berlin, NJ 08091

Tel: (856) 767-8600

Toll Free: (800) 504-1116

ConeTecNJ@conetec.com www.conetec.com www.conetecdataservices.com







#### INTRODUCTION

The enclosed report presents the results of the site investigation program conducted by ConeTec, Inc. for CME Associates, Inc. The program consisted of cone penetration tests, seismic cone penetration tests, and pore pressure dissipation tests carried out for Proposed Micron Plant located in Clay, New York The program was completed under supervision of CME Associates, Inc. personnel (Mark Schumacher). Please note that this report, which also includes all accompanying data, are subject to the 3rd Party Disclaimer and Client Disclaimer that follows in the 'Limitations' section of this report.

#### PROJECT INFORMATION

Project	
Client	CME Associates, Inc.
Project	Proposed Micron Plant, Clay, NY
ConeTec Project Number	23-53-26729
Rig Description	20-ton Track CPT Rig
Test Types	CPTu, SCPTu, PPD
Additional Comments	None

Coordinates	
Collection Method	Handheld GPS
EPSG Number	32618 (WGS 84 / UTM Zone 18 North)
Additional Comments	None



Cone Penetration Test (CPTu)									
Depth reference	Depths are referenced to the existing ground surface at the time of each test.								
Tip and sleeve data offset	0.1 Meters. This has been accounted for in the CPT data files.								
Seismic calculations	Poisson's ratio (v) was calculated from the shear wave (V _s ) and compression wave (V _p ) velocities using the following equation: $v = \frac{\left(V_p/V_s\right)^2 - 2}{2\left(\left(V_p/V_s\right)^2 - 1\right)}$								
Additional Comments	None								

Calculated Geotechnical Parameters										
Additional information	The Normalized Soil Behavior Type Chart based on $Q_{tn}$ (SBT $Q_{tn}$ ) (Robertson, 2009) was used to classify the soil for this project. A detailed set of calculated CPTu parameters have been generated and are provided in Excel format files in the release folder. The CPTu parameter calculations are based on values of corrected tip resistance ( $q_t$ ) sleeve friction ( $f_s$ ) and pore pressure ( $u_2$ ).									
	Effective stresses are calculated based on unit weights that have been assigned to the individual soil behavior type zones and the assumed equilibrium pore pressure profile.									
	Soils were classified as either drained or undrained based on the $Q_{\text{tn}}$ Normalized Soil Behavior Type Chart (Robertson, 2009). Calculations for both drained and undrained parameters were included for materials that classified as silt mixtures (zone 4).									
	For calculating undrained shear strength based on pore pressure $(S_u(N_{\Delta u}))$ and undrained shear strength based on cone tip resistance $(S_u(N_{kt}))$ , an $N_{\Delta u}$ value of 6 and an $N_{kt}$ value of 15 were selected.									



## SITE MAP





### LIMITATIONS

### 3rd Party Disclaimer

- The "Report" refers to this report titled Proposed Micron Plant, Clay, NY
- The Report was prepared by ConeTec for CME Associates, Inc.

The Report is confidential and may not be distributed to or relied upon by any third parties without the expressed written consent of ConeTec. Any third parties gaining access to the Report do not acquire any rights as a result of such access. Any use which a third party makes of the Report, or any reliance on or decisions made based on it, are the responsibility of such third parties. ConeTec accepts no responsibility for loss, damage and/or expense, if any, suffered by any third parties as a result of decisions made, or actions taken or not taken, which are in any way based on, or related to, the Report or any portion(s) thereof.

### **Client Disclaimer**

- ConeTec was retained by CME Associates, Inc.
- The "Report" refers to this report titled Proposed Micron Plant, Clay, NY
- ConeTec was retained to collect and provide the factual data ("Data") which is included in the Report.

ConeTec has collected and reported the Data in accordance with current industry standards. No other warranty, expressed or implied, with respect to the Data is made by ConeTec. In order to properly understand the Data included in the Report, reference must be made to the documents accompanying and other sources referenced in the Report in their entirety. Other than the Data, the contents of the Report (including any interpretations), should not be relied upon in any fashion without independent verification. ConeTec is in no way responsible for any loss, damage or expense resulting from the use of, and/or reliance on, such material by any party.



### METHODOLOGY STATEMENTS



### CONE PENETRATION TEST (CPTu) - eSeries

Cone penetration tests (CPTu) are conducted using an integrated electronic piezocone penetrometer and data acquisition system manufactured by Adara Systems Ltd., a subsidiary of ConeTec.

ConeTec's piezocone penetrometers are compression type designs in which the tip and friction sleeve load cells are independent and have separate load capacities. The piezocones use strain gauged load cells for tip and sleeve friction and a strain gauged diaphragm type transducer for recording pore pressure. The piezocones also have a platinum resistive temperature device (RTD) for monitoring the temperature of the sensors, an accelerometer type dual axis inclinometer and two geophone sensors for recording seismic signals. All signals are amplified and measured with minimum sixteen-bit resolution down hole within the cone body, and the signals are sent to the surface using a high bandwidth, error corrected digital interface through a shielded cable.

ConeTec penetrometers are manufactured with various tip, friction and pore pressure capacities in both 10 cm² and 15 cm² tip base area configurations in order to maximize signal resolution for various soil conditions. The specific piezocone used for each test is described in the CPT summary table. The 15 cm² penetrometers do not require friction reducers as they have a diameter larger than the deployment rods. The 10 cm² piezocones use a friction reducer consisting of a rod adapter extension behind the main cone body with an enlarged cross sectional area (typically 44 millimeters diameter over a length of 32 millimeters with tapered leading and trailing edges) located at a distance of 585 millimeters above the cone tip.

The penetrometers are designed with equal end area friction sleeves, a net end area ratio of 0.8 and cone tips with a 60 degree apex angle.

All ConeTec piezocones can record pore pressure at various locations. Unless otherwise noted, the pore pressure filter is located directly behind the cone tip in the "u₂" position (ASTM Type 2). The filter is six millimeters thick, made of porous plastic (polyethylene) having an average pore size of 125 microns (90-160 microns). The function of the filter is to allow rapid movements of extremely small volumes of water needed to activate the pressure transducer while preventing soil ingress or blockage.

The piezocone penetrometers are manufactured with dimensions, tolerances and sensor characteristics that are in general accordance with the current ASTM D5778 standard. ConeTec's calibration criteria also meets or exceeds those of the current ASTM D5778 standard. An illustration of the piezocone penetrometer is presented in Figure CPTu.



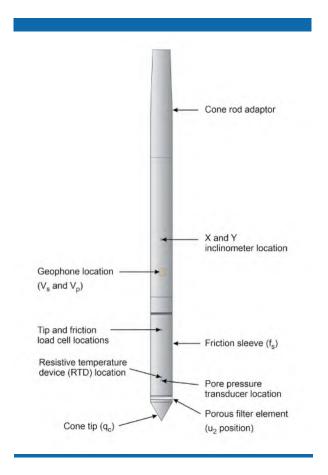


Figure CPTu. Piezocone Penetrometer (15 cm²)

The ConeTec data acquisition system consists of a Windows based computer, signal interface box, and power supply. The signal interface combines depth increment signals, seismic trigger signals and the downhole digital data. This combined data is then sent to the Windows based computer for collection and presentation. The data is recorded at fixed depth increments using a depth encoder that is either portable or integrated into the rig. The typical recording interval is 2.5 centimeters; custom recording intervals are possible.

The system displays the CPTu data in real time and records the following parameters to a storage media during penetration:

- Depth
- Uncorrected tip resistance (q_c)
- Sleeve friction (f_s)
- Dynamic pore pressure (u)
- Additional sensors such as resistivity, passive gamma, ultra violet induced fluorescence, if applicable

All testing is performed in accordance to ConeTec's CPTu operating procedures which are in general accordance with the current ASTM D5778 standard.



Prior to the start of a CPTu sounding a suitable cone is selected, the cone and data acquisition system are powered on, the pore pressure system is saturated with silicone oil and the baseline readings are recorded with the cone hanging freely in a vertical position.

The CPTu is conducted at a steady rate of two centimeters per second, within acceptable tolerances. Typically one meter length rods with an outer diameter of 1.5 inches are added to advance the cone to the sounding termination depth. After cone retraction final baselines are recorded.

Additional information pertaining to ConeTec's cone penetration testing procedures:

- Each filter is saturated in silicone oil under vacuum pressure prior to use
- · Baseline readings are compared to previous readings
- Soundings are terminated at the client's target depth or at a depth where an obstruction is encountered, excessive rod flex occurs, excessive inclination occurs, equipment damage is likely to take place, or a dangerous working environment arises
- Differences between initial and final baselines are calculated to ensure zero load offsets have not occurred and to ensure compliance with ASTM standards

The interpretation of piezocone data for this report is based on the corrected tip resistance  $(q_t)$ , sleeve friction  $(f_s)$  and pore water pressure (u). The interpretation of soil type is based on the correlations developed by Robertson, P.K., 2010. The Soil Behavior Type (SBT) classification chart developed by Robertson, P.K., 2010 is presented in Figure SBT. It should be noted that it is not always possible to accurately identify a soil behavior type based on these parameters. In these situations, experience, judgment and an assessment of other parameters may be used to infer soil behavior type.

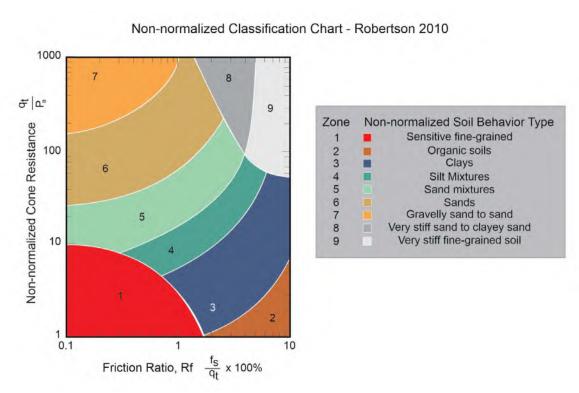


Figure SBT. Non-Normalized Soil Behavior Type Classification Chart (SBT)



The recorded tip resistance ( $q_c$ ) is the total force acting on the piezocone tip divided by its base area. The tip resistance is corrected for pore pressure effects and termed corrected tip resistance ( $q_t$ ) according to the following expression presented in Robertson et al. (1986):

$$q_t = q_c + (1-a) \cdot u_2$$

where: q, is the corrected tip resistance

q is the recorded tip resistance

u₂ is the recorded dynamic pore pressure behind the tip (u₂ position)

a is the Net Area Ratio for the piezocone (0.8 for ConeTec probes)

The sleeve friction ( $f_s$ ) is the frictional force on the sleeve divided by its surface area. As all ConeTec piezocones have equal end area friction sleeves, pore pressure corrections to the sleeve data are not required.

The dynamic pore pressure (u) is a measure of the pore pressures generated during cone penetration. To record equilibrium pore pressure, the penetration must be stopped to allow the dynamic pore pressures to stabilize. The rate at which this occurs is predominantly a function of the permeability of the soil and the diameter of the cone.

The friction ratio (Rf) is a calculated parameter. It is defined as the ratio of sleeve friction to the tip resistance expressed as a percentage. Generally, saturated cohesive soils have low tip resistance, high friction ratios and generate large excess pore water pressures. Cohesionless soils have higher tip resistances, lower friction ratios and do not generate significant excess pore water pressure.

For additional information on CPTu interpretations and calculated geotechnical parameters, refer to Robertson et al. (1986), Lunne et al. (1997), Robertson (2009), Mayne (2013, 2014) and Mayne and Peuchen (2012).

#### **REFERENCES**

ASTM D5778-20, 2020, "Standard Test Method for Performing Electronic Friction Cone and Piezocone Penetration Testing of Soils", ASTM International, West Conshohocken, PA. DOI: 10.1520/D5778-20.

Lunne, T., Robertson, P.K. and Powell, J. J. M., 1997, "Cone Penetration Testing in Geotechnical Practice", Blackie Academic and Professional.

Mayne, P.W., 2013, "Evaluating yield stress of soils from laboratory consolidation and in-situ cone penetration tests", Sound Geotechnical Research to Practice (Holtz Volume) GSP 230, ASCE, Reston/VA: 406-420. DOI: 10.1061/9780784412770.027.

Mayne, P.W. and Peuchen, J., 2012, "Unit weight trends with cone resistance in soft to firm clays", Geotechnical and Geophysical Site Characterization 4, Vol. 1 (Proc. ISC-4, Pernambuco), CRC Press, London: 903-910.

Mayne, P.W., 2014, "Interpretation of geotechnical parameters from seismic piezocone tests", CPT'14 Keynote Address, Las Vegas, NV, May 2014.

Robertson, P.K., Campanella, R.G., Gillespie, D. and Greig, J., 1986, "Use of Piezometer Cone Data", Proceedings of InSitu 86, ASCE Specialty Conference, Blacksburg, Virginia.

Robertson, P.K., 2009, "Interpretation of cone penetration tests – a unified approach", Canadian Geotechnical Journal, Volume 46: 1337-1355. DOI: 10.1139/T09-065.

Robertson, P.K., 2010. Soil behavior type from the CPT: an update. 2nd International Symposium on Cone Penetration Testing, CPT'10, Huntington Beach, CA, USA





### PORE PRESSURE DISSIPATION TEST

The cone penetration test is halted at specific depths to carry out pore pressure dissipation (PPD) tests, shown in Figure PPD-1. For each dissipation test the cone and rods are decoupled from the rig and the data acquisition system measures and records the variation of the pore pressure (u) with time (t).

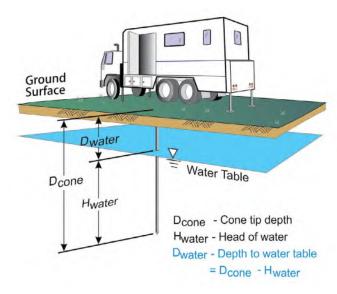


Figure PPD-1. Pore pressure dissipation test setup

Pore pressure dissipation data can be interpreted to provide estimates of ground water conditions, permeability, consolidation characteristics and soil behavior.

The typical shapes of dissipation curves shown in Figure PPD-2 are very useful in assessing soil type, drainage, in situ pore pressure and soil properties. A flat curve that stabilizes quickly is typical of a freely draining sand. Undrained soils such as clays will typically show positive excess pore pressure and have long dissipation times. Dilative soils will often exhibit dynamic pore pressures below equilibrium that then rise over time. Overconsolidated fine-grained soils will often exhibit an initial dilatory response where there is an initial rise in pore pressure before reaching a peak and dissipating.

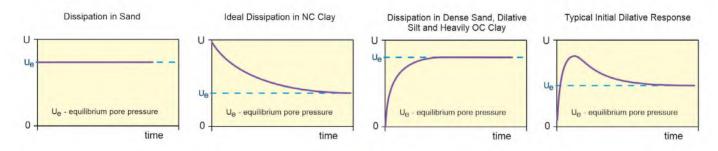


Figure PPD-2. Pore pressure dissipation curve examples

In order to interpret the equilibrium pore pressure  $(u_{eq})$  and the apparent phreatic surface, the pore pressure should be monitored until such time as there is no variation in pore pressure with time as shown for each curve in Figure PPD-2.





### SEISMIC CONE PENETRATION TEST (SCPTu) - eSeries

Shear wave velocity (Vs) testing is performed in conjunction with the piezocone penetration test (SCPTu) in order to collect interval velocities. For some projects seismic compression wave velocity (Vp) testing is also performed.

ConeTec's piezocone penetrometers are manufactured with one horizontally active geophone (28 hertz) and one vertically active geophone (28 hertz). Both geophones are rigidly mounted in the body of the cone penetrometer, 0.2 meters behind the cone tip. The vertically mounted geophone is more sensitive to compression waves.

Shear waves are typically generated by using an impact hammer horizontally striking a beam that is held in place by a normal load. In some instances, an auger source or an imbedded impulsive source may be used for both shear waves and compression waves. The hammer and beam act as a contact trigger that initiates the recording of the seismic wave traces. For impulsive devices an accelerometer trigger may be used. The traces are recorded in the memory of the cone using a fast analog to digital converter. The seismic trace is then transmitted digitally uphole to a Windows based computer through a signal interface box for recording and analysis. An illustration of the shear wave testing configuration is presented in Figure SCPTu-1.

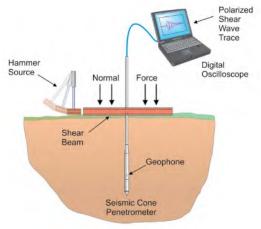


Figure SCPTu-1. Illustration of the SCPTu system

All testing is performed in accordance to ConeTec's SCPTu operating procedures which are in general accordance with the current ASTM D5778 and ASTM D7400 standards.

Prior to the start of a SCPTu sounding, the procedures described in the Cone Penetration Test section are followed. In addition, the active axis of the geophone is aligned parallel to the beam (or source) and the horizontal offset between the cone and the source is measured and recorded.

Prior to recording seismic waves at each test depth, cone penetration is stopped and the rods are decoupled from the rig to avoid transmission of rig energy down the rods. Typically, five wave traces for each orientation are recorded for quality control and uncertainty analysis purposes. After reviewing wave traces for consistency the cone is pushed to the next test depth (typically one meter intervals or as requested by the client). Figure SCPTu-2 presents an illustration of a SCPTu test.



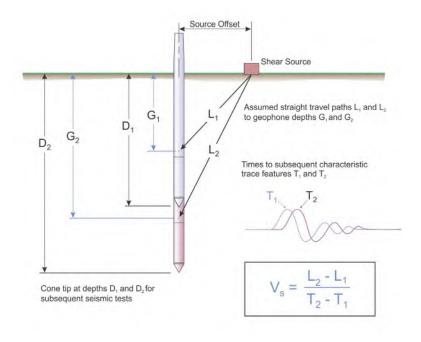


Figure SCPTu-2. Illustration of a seismic cone penetration test

For the determination of interval travel times the wave traces from all depths are displayed in analysis software. The results of the interval picks are supplied in the relevant appendix of this report. Standard practice for ConeTec is to record five wave traces for each source direction at each test depth. Outlier impacts are identified in the field and the impacts are repeated. For the final wave trace profile, the traces are stacked in the time domain to display a single average trace.

Calculation of the interval velocities are performed by visually picking a common feature (e.g. the first characteristic peak, trough, or crossover) on all of the recorded wave sets and taking the difference in ray path divided by the time difference between subsequent features. Ray path is defined as the straight line distance from the seismic source to the geophone, accounting for beam offset, source depth and geophone offset from the cone tip.

In some cases, usually for shear wave velocity testing, more than one characteristic marker may be used. If there is an overlap between different sets of characteristic markers, then the average time value for those sets of interval times is applied to the determination of velocity.

Ideally, all depths are used for the determination of the velocity profile. However, an interval may be skipped if there is some ambiguity or quality concern with a particular depth, resulting in a larger interval.

Tabular velocity results and SCPTu plots are presented in the relevant appendix.

For all SCPTu soundings that have achieved a depth of at least 100 feet (30 meters), the average shear wave velocity to a depth of 100 feet  $(\overline{v}_S)$  has been calculated and provided for all applicable soundings using the following equation presented in ASCE (2010).



$$\bar{v}_{s} = \frac{\sum_{i=1}^{n} d_{i}}{\sum_{i=1}^{n} \frac{d_{i}}{v_{si}}}$$

where:  $v_s = average shear wave velocity ft/s (m/s)$ 

d_i = the thickness of any layer between 0 and 100 ft (30 m)

 $v_{si}$  = the shear wave velocity in ft/s (m/s)

 $\sum_{i=1}^{n} d_i$  = the total thickness of all layers between 0 and 100 ft (30 m)

Average shear wave velocity,  $\overline{v}_S$  is also referenced to V_S100 or V_S30.

The layer travel times refers to the travel times propagating in the vertical direction, not the measured travel times from an offset source.

### **REFERENCES**

American Society of Civil Engineers (ASCE), 2010, "Minimum Design Loads for Buildings and Other Structures", Standard ASCE/SEI 7-10, American Society of Civil Engineers, ISBN 978-0-7844-1085-1, Reston, Virginia. DOI: 10.1061/9780784412916.

ASTM D5778-20, 2020, "Standard Test Method for Performing Electronic Friction Cone and Piezocone Penetration Testing of Soils", ASTM International, West Conshohocken, PA. DOI: 10.1520/D5778-20.

ASTM D7400/D7400M-19, 2019, "Standard Test Methods for Downhole Seismic Testing", ASTM International, West Conshohocken, PA. DOI: 10.1520/D7400 D7400M-19.

Robertson, P.K., Campanella, R.G., Gillespie D and Rice, A., 1986, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8: 791-803. DOI: 10.1061/(ASCE)0733-9410(1986)112:8(791).





### **CPT Data Files (COR Extension)**

ConeTec CPT data files are stored in ASCII text files that are readable by almost any text editor. ConeTec file names start with the job number (which includes the two digit year number) an underscore as a separating character, followed by two letters based on the type of test and the sounding ID. The last character position is reserved for an identifier letter (such as b, c, d etc) used to uniquely distinguish multiple soundings at the same location. The CPT sounding file has the extension COR. As an example, for job number 21-02-00001 the first CPT sounding will have file name 21-02-00001_CP01.COR

The sounding (COR) file consists of the following components:

- 1. Two lines of header information
- 2. Data records
- 3. End of data marker
- 4. Units information

#### **Header Lines**

Line 1: Columns 1-6 may be blank or may indicate the version number of the recording software

Columns 7-21 contain the sounding Date and Time (Date is MM:DD:YY)

Columns 23-38 contain the sounding Operator

Columns 51-100 contain extended Job Location information

Line 2: Columns 1-16 contain the Job Location

Columns 17-32 contain the Cone ID

Columns 33-47 contain the sounding number

Columns 51-100 may contain extended sounding ID information

### **Data Records**

The data records contain 4 or more columns of data in floating point format. A comma and spaces separate each data item:

Column 1: Sounding Depth (meters)

Column 2: Tip (q_c), recorded in units selected by the operator

Column 3: Sleeve (f_s), recorded in units selected by the operator

Column 4: Dynamic pore pressure (u), recorded in units selected by the operator

Column 5: Empty or may contain other requested data such as Gamma, Resistivity or UVIF data

#### **End of Data Marker**

After the last line of data there is a line containing an ASCII 26 (CTL-Z) character (small rectangular shaped character) followed by a newline (carriage return / line feed). This is used to mark the end of data.



#### **Units Information**

The last section of the file contains information about the units that were selected for the sounding. A separator bar makes up the first line. The second line contains the type of units used for depth,  $q_c$ ,  $f_s$  and u. The third line contains the conversion values required for ConeTec's software to convert the recorded data to an internal set of base units (bar for  $q_c$ , bar for  $f_s$  and meters for u). Additional lines intended for internal ConeTec use may appear following the conversion values.

### **CPT Data Files (XLS Extension)**

Excel format files of ConeTec CPT data are also generated from corresponding COR files. The XLS files have the same base file name as the COR file with a -BSC suffix. The information in the file is presented in table format and contains additional information about the sounding such as coordinate information, and tip net area ratio.

The BSCI suffix is given to XLS files which are enhanced versions of the BSC files and include the same data records in addition to inclination data collected for each sounding.

### **CPT Dissipation Files (XLS Extension)**

Pore pressure dissipation files are provided in Excel format and contain each dissipation trace that exceeds a minimum duration (selected during post-processing) formatted column wise within the spreadsheet. The first column (Column A) contains the time in seconds and the second column (Column B) contains the time in minutes. Subsequent columns contain the dissipation trace data. The columns extend to the longest trace of the data set.

Detailed header information is provided at the top of the worksheet. The test depth in meters and feet, the number of points in the trace and the particular units are all presented at the top of each trace column.

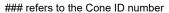
CPT Dissipation files have the same naming convention as the CPT sounding files with a "-PPD" suffix.

### **Data Records**

Each file will contain dissipation traces that exceed a minimum duration (selected during post-processing) in a particular column. The dissipation pore pressure values are typically recorded at varying time intervals throughout the trace; rapidly to start and increasing as the duration of the test lengthens. The test depth in meters and feet, the number of points in the trace and the trace number are identified at the top of each trace column.

### **Cone Type Designations**

Cone ID	Cone Description	Tip Cross Sect. Area (cm²)	Tip Capacity (bar)	Sleeve Area (cm²)**	Sleeve Capacity (bar)	Pore Pressure Capacity (bar)	
EC###	A15T1500F15U35	15	1500	225	15	35	
EC###	A15T375F10U35	15	375	225	10	35	
EC###	A10T1000F10U35	10	1000	150	10	35	



^{**}Outer Cylindrical Area



## **APPENDICES**

### The appendices listed below are included in the Report:

- Cone Penetration Test Summary and Standard Cone Penetration Test Plots
- Advanced Cone Penetration Test Plots
- Seismic Cone Penetration Test Plots
- Seismic Cone Penetration Test Shear Wave (Vs) Traces
- Seismic Cone Penetration Test Shear Wave (Vs) Results
- Seismic Cone Penetration Test Compression Wave (Vp) Traces
- Seismic Cone Penetration Test Compression Wave (Vp) Results
- Seismic Cone Penetration Test Poisson's Ratio Results
- Soil Behavior Type (SBT) Scatter Plots
- Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots



Cone Penetration Test Summary and Standard Cone Penetration Test Plots





Job No: 23-53-26729
Client: CME Associates

**Project:** Proposed Micron Plant, Clay, NY

 Start Date:
 23-Oct-2023

 End Date:
 28-Oct-2023

CONE PENETRATION TEST SUMMARY												
Sounding ID	File Name	Date	Rig	Cone	Cone Area (cm²)	Assumed Phreatic Surface ¹ (ft)	Final Depth (ft)	Shear Wave Velocity Tests	Compression Wave Velocity Tests	Northing ² (m)	Easting ² (m)	Refer to Notation Number
CPT23-B-004	23-53-26729_CPB-004	25-Oct-2023	TC-7	604:T1500F15U35	15	7.7	24.03			4783255	405402	3
CPT23-B-006	23-53-26729_CPB-006	25-Oct-2023	TC-7	604:T1500F15U35	15	7.1	23.38			4783259	405526	3
CPT23-B-008	23-53-26729_CPB-008	25-Oct-2023	TC-7	604:T1500F15U35	15	7.3	23.87			4783184	405225	3
CPT23-B-014	23-53-26729_CPB-014	25-Oct-2023	TC-7	604:T1500F15U35	15	7.1	21.90			4783216	405656	3
CPT23-B-016	23-53-26729_CPB-016	25-Oct-2023	TC-7	604:T1500F15U35	15	6.6	21.49			4783123	405290	3
CPT23-B-021	23-53-26729_CPB-021	25-Oct-2023	TC-7	604:T1500F15U35	15	5.2	21.57			4783063	405235	3
CPT23-B-022	23-53-26729_CPB-022	25-Oct-2023	TC-7	604:T1500F15U35	15	6.5	19.03			4783076	405537	3
CPT23-B-060	23-53-26729_CPB-060	24-Oct-2023	TC-7	604:T1500F15U35	15		15.91			4782561	405685	5
CPT23-B-064	23-53-26729_CPB-064	23-Oct-2023	TC-7	604:T1500F15U35	15		5.66			4782566	405331	5
CPT23-B-064A	23-53-26729_CPB-064A	23-Oct-2023	TC-7	604:T1500F15U35	15		5.66			4782574	405430	5
CPT23-B-066	23-53-26729_CPB-066	23-Oct-2023	TC-7	604:T1500F15U35	15		5.25			4782577	405304	5
CPT23-B-066A	23-53-26729_CPB-066A	23-Oct-2023	TC-7	604:T1500F15U35	15		5.41			4782578	405304	5
CPT23-B-070	23-53-26729_CPB-070	24-Oct-2023	TC-7	604:T1500F15U35	15	5.7	11.07			4782528	405678	3
CPT23-B-073	23-53-26729_CPB-073	23-Oct-2023	TC-7	604:T1500F15U35	15		9.10			4782536	405496	5
CPT23-B-074	23-53-26729_CPB-074	23-Oct-2023	TC-7	604:T1500F15U35	15		1.64			4782535	405441	5
CPT23-B-074A	23-53-26729_CPB-074A	23-Oct-2023	TC-7	604:T1500F15U35	15		5.09			4782536	405438	5
CPT23-B-075	23-53-26729_CPB-075	23-Oct-2023	TC-7	604:T1500F15U35	15		6.15			4782534	405362	5
CPT23-B-076	23-53-26729_CPB-076	23-Oct-2023	TC-7	604:T1500F15U35	15		5.91			4782537	405311	5
CPT23-B-077	23-53-26729_CPB-077	23-Oct-2023	TC-7	604:T1500F15U35	15		8.37			4782533	405264	5
CPT23-B-078	23-53-26729_CPB-078	25-Oct-2023	TC-7	604:T1500F15U35	15		8.37			4782533	405733	5
CPT23-B-080	23-53-26729_CPB-080	24-Oct-2023	TC-7	604:T1500F15U35	15	9.4	15.34			4782485	405681	3
CPT23-B-084	23-53-26729_CPB-084	23-Oct-2023	TC-7	604:T1500F15U35	15		6.23			4782502	405427	5
CPT23-B-086	23-53-26729_CPB-086	23-Oct-2023	TC-7	604:T1500F15U35	15		6.56			4782506	405306	5
CPT23-B-092	23-53-26729_CPB-092	23-Oct-2023	TC-7	604:T1500F15U35	15		12.06			4782439	405546	5
CPT23-B-093	23-53-26729_CPB-093	23-Oct-2023	TC-7	604:T1500F15U35	15		8.53			4782440	405488	5
CPT23-B-095	23-53-26729_CPB-095	24-Oct-2023	TC-7	604:T1500F15U35	15		6.07			4782440	405366	5
CPT23-B-097	23-53-26729_CPB-097	23-Oct-2023	TC-7	604:T1500F15U35	15		10.01			4782444	405240	5
CPT23-B-098	23-53-26729_CPB-098	25-Oct-2023	TC-7	604:T1500F15U35	15		11.32			4782436	405738	5
CPT23-B-102	23-53-26729_CPB-102	24-Oct-2023	TC-7	604:T1500F15U35	15		9.68			4782407	405552	5
CPT23-B-104	23-53-26729_CPB-104	24-Oct-2023	TC-7	604:T1500F15U35	15		4.43			4782390	405424	5
CPT23-B-106	23-53-26729_CPB-106	24-Oct-2023	TC-7	604:T1500F15U35	15		7.38			4782406	405306	5



Job No: 23-53-26729
Client: CME Associates

**Project:** Proposed Micron Plant, Clay, NY

 Start Date:
 23-Oct-2023

 End Date:
 28-Oct-2023

CONE PENETRATION TEST SUMMARY												
Sounding ID	File Name	Date	Rig	Cone	Cone Area (cm²)	Assumed Phreatic Surface ¹ (ft)	Final Depth (ft)	Shear Wave Velocity Tests	Compression Wave Velocity Tests	Northing ² (m)	Easting ² (m)	Refer to Notation Number
CPT23-B-107	23-53-26729_CPB-107	25-Oct-2023	TC-7	604:T1500F15U35	15	9.8	17.72			4782397	405742	3
CPT23-B-112	23-53-26729_CPB-112	24-Oct-2023	TC-7	604:T1500F15U35	15	8.4	9.35			4782363	405534	3
CPT23-B-113	23-53-26729_CPB-113	24-Oct-2023	TC-7	604:T1500F15U35	15	8.4	10.01			4782359	405498	4
CPT23-B-115	23-53-26729_CPB-115	24-Oct-2023	TC-7	604:T1500F15U35	15		6.64			4782356	405372	5
CPT23-B-120	23-53-26729_CPB-120	24-Oct-2023	TC-7	604:T1500F15U35	15		8.45			4782336	405417	5
CPT23-B-208	23-53-26729_CPB-208	27-Oct-2023	TC-7	606:T1500F15U35	15		21.90			4782904	406684	5
CPT23-B-221	23-53-26729_CPB-221	27-Oct-2023	TC-7	606:T1500F15U35	15		15.17			4783038	406405	5
CPT23-B-222	23-53-26729_CPB-222	27-Oct-2023	TC-7	606:T1500F15U35	15		17.55			4783002	406458	5
CPT23-B-225	23-53-26729_CPB-225	27-Oct-2023	TC-7	606:T1500F15U35	15		23.95			4782889	406600	5
SCPT23-B-228	23-53-26729_SPB-228	27-Oct-2023	TC-7	606:T1500F15U35	15	5.2	5.00			4782803	406617	3
SCPT23-B-228A	23-53-26729_SPB-228A	27-Oct-2023	TC-7	606:T1500F15U35	15	5.2	23.62	3	3	4782805	406616	3
CPT23-B-237	23-53-26729_CPB-237	27-Oct-2023	TC-7	606:T1500F15U35	15	9.4	16.57			4782977	406285	3
CPT23-B-238	23-53-26729_CPB-238	27-Oct-2023	TC-7	606:T1500F15U35	15	10.2	18.70			4782942	406333	3
CPT23-B-243	23-53-26729_CPB-243	26-Oct-2023	TC-7	604:T1500F15U35	15	7.6	11.89			4782901	406077	3
CPT23-B-244	23-53-26729_CPB-244	26-Oct-2023	TC-7	604:T1500F15U35	15		21.24			4782940	406022	5
CPT23-B-246	23-53-26729_CPB-246	26-Oct-2023	TC-7	606:T1500F15U35	15		12.71			4782950	405893	5
CPT23-B-252	23-53-26729_CPB-252	26-Oct-2023	TC-7	606:T1500F15U35	15	4.7	23.87			4783005	405730	3
CPT23-B-261	23-53-26729_CPB-261	26-Oct-2023	TC-7	606:T1500F15U35	15		22.72			4783025	405815	5
CPT23-B-262	23-53-26729_CPB-262	26-Oct-2023	TC-7	606:T1500F15U35	15	8.9	21.98			4782994	405928	3
CPT23-B-270	23-53-26729_CPB-270	26-Oct-2023	TC-7	606:T1500F15U35	15		17.72			4783073	405910	5
CPT23-B-280	23-53-26729_CPB-280	26-Oct-2023	TC-7	606:T1500F15U35	15		18.29			4783111	405890	5
CPT23-B-282	23-53-26729_CPB-282	26-Oct-2023	TC-7	606:T1500F15U35	15		20.59			4783220	405930	5
SCPT23-B-293	23-53-26729_SPB-293	27-Oct-2023	TC-7	606:T1500F15U35	15	3.4	15.99	3	3	4783206	406149	3
CPT23-B-312	23-53-26729_CPB-312	26-Oct-2023	TC-7	604:T1500F15U35	15	5.9	26.82			4782765	406355	3
CPT23-B-325	23-53-26729_CPB-325	28-Oct-2023	TC-7	606:T1500F15U35	15		20.67			4782627	406459	5
CPT23-B-327	23-53-26729_CPB-327	28-Oct-2023	TC-7	606:T1500F15U35	15	2.8	22.39			4782553	406579	3
CPT23-B-329	23-53-26729_CPB-329	28-Oct-2023	TC-7	606:T1500F15U35	15	8.4	24.77			4782556	406475	3
CPT23-B-330	23-53-26729_CPB-330	28-Oct-2023	TC-7	606:T1500F15U35	15	8.2	23.62			4782560	406351	3
SCPT23-B-332	23-53-26729_SPB-332	28-Oct-2023	TC-7	606:T1500F15U35	15	5.2	15.91	3	3	4782558	406102	3
CPT23-B-345	23-53-26729_CPB-345	27-Oct-2023	TC-7	606:T1500F15U35	15		14.76			4782374	406153	5
CPT23-B-351	23-53-26729_CPB-351	27-Oct-2023	TC-7	606:T1500F15U35	15	9.5	21.41			4782409	406505	3



Job No: 23-53-26729
Client: CME Associates

**Project:** Proposed Micron Plant, Clay, NY

 Start Date:
 23-Oct-2023

 End Date:
 28-Oct-2023

	CONE PENETRATION TEST SUMMARY											
Sounding ID	File Name	Date	Rig	Cone	Cone Area (cm²)	Assumed Phreatic Surface ¹ (ft)	Final Depth (ft)	Shear Wave Velocity Tests	Compression Wave Velocity Tests	Northing ² (m)	Easting ² (m)	Refer to Notation Number
CPT23-B-360	23-53-26729_CPB-360	28-Oct-2023	TC-7	606:T1500F15U35	15		16.57			4782560	405998	5
CPT23-B-362	23-53-26729_CPB-362	28-Oct-2023	TC-7	606:T1500F15U35	15		18.21			4782651	405887	5
CPT23-B-365	23-53-26729_CPB-365	28-Oct-2023	TC-7	606:T1500F15U35	15		2.63			4782724	405704	5
CPT23-B-365A	23-53-26729_CPB-365A	28-Oct-2023	TC-7	606:T1500F15U35	15		6.32			4782716	405705	5
CPT23-B-371	23-53-26729_CPB-371	28-Oct-2023	TC-7	606:T1500F15U35	15	3.2	16.49			4782809	405685	3
CPT23-B-372	23-53-26729_CPB-372	28-Oct-2023	TC-7	606:T1500F15U35	15	4.4	17.39			4782756	405814	3
CPT23-B-381	23-53-26729_CPB-381	28-Oct-2023	TC-7	606:T1500F15U35	15	8.4	20.26			4782851	405725	3
CPT23-B-383	23-53-26729_CPB-383	28-Oct-2023	TC-7	606:T1500F15U35	15	8.6	22.88			4782758	405878	3
Totals	70 Soundings						1019.18 ft	9 Tests				

^{1.} The assumed phreatic surface was based off the shallowest pore pressure dissipation test performed within the sounding. Hydrostatic conditions were assumed for the calculated parameters.

^{2.} The coordinates were collected using a handheld Garmin GPS MAP 64s receiver. EPSG number: 32618 (WGS84 / UTM Zone 18 North).

^{3.} The assumed phreatic surface was based off the dynamic pore pressure data.

^{4.} The assumed phreatic surface was based off an adjacent CPT sounding.

^{5.} No phreatic surface detected.

qt (tsf) 200



0

5

10

15

20

25

Depth (feet)

CONETEC CME Associates

400

Job No: 23-53-26729 Date: 2023-10-25 12:03

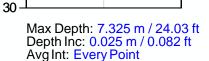
fs (tsf)

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Sounding: CPT23-B-004 Cone: 604:T1500F15U35 SBT Qtn u (ft) 50 100 150 0 3 6 9 -30 0 Clays Silt Mixtures Sand Mixtures Sands Sand Mixtures Sand Mixtures Sands Sand Mixtures Sand Mixtures Sand Mixtures Silt Mixtures Clays Sands Undefined Refusal



Refusal

File: 23-53-26729_CPB-004.COR Unit Wt: SBTQtn (PKR2009)

Refusal

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4783255m E: 405402m

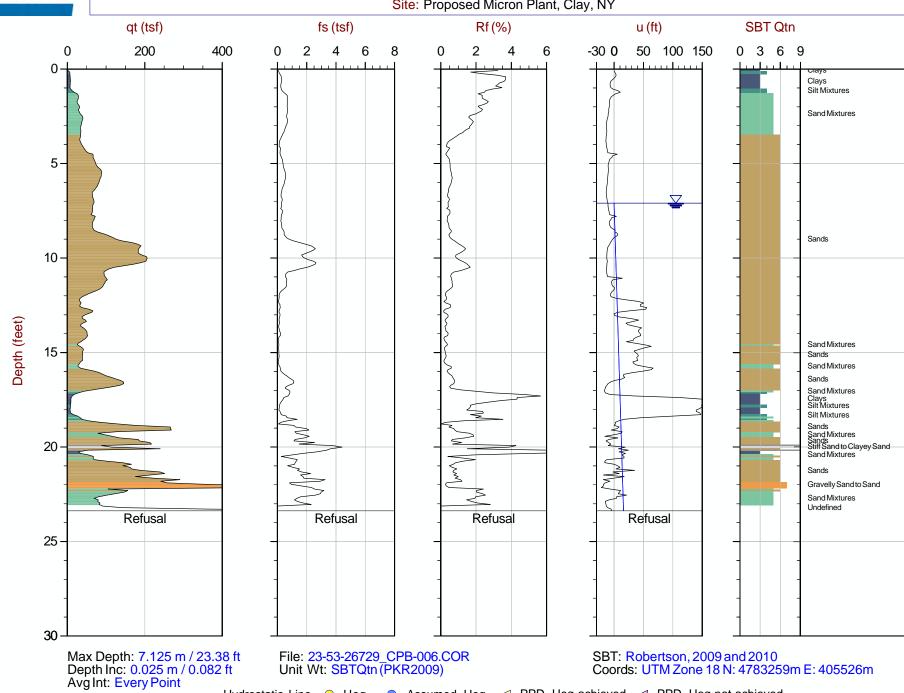
Refusal



Job No: 23-53-26729 Date: 2023-10-25 12:43

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-006 Cone: 604:T1500F15U35



Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

PPD, Ueq not achieved 

PPD, Ue

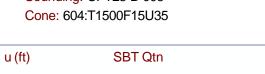
CONETEC

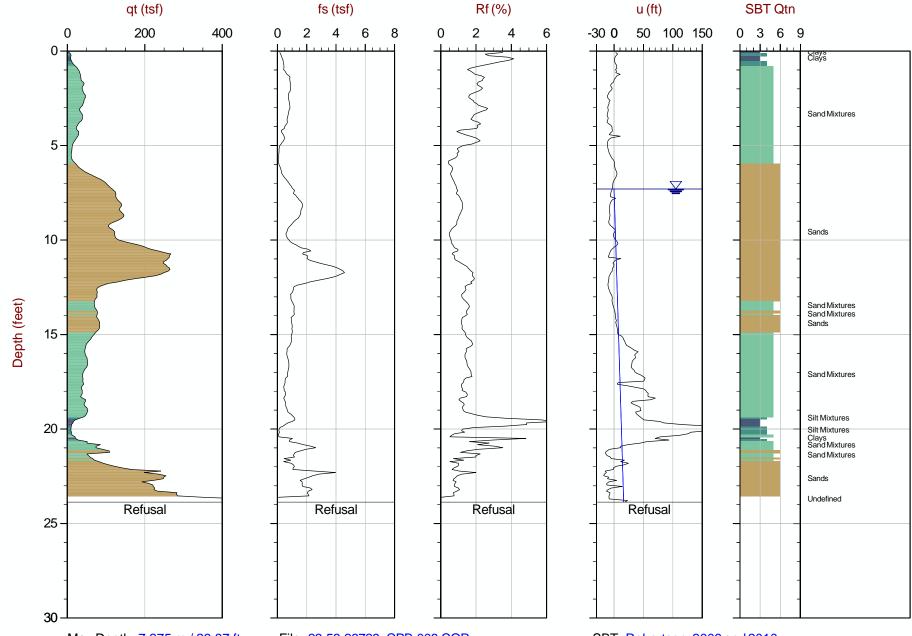
CME Associates

Job No: 23-53-26729 Date: 2023-10-25 10:45

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-008





Max Depth: 7.275 m / 23.87 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

File: 23-53-26729_CPB-008.COR Unit Wt: SBTQtn (PKR2009)

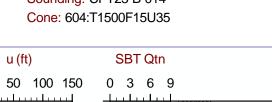
SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4783184m E: 405225m

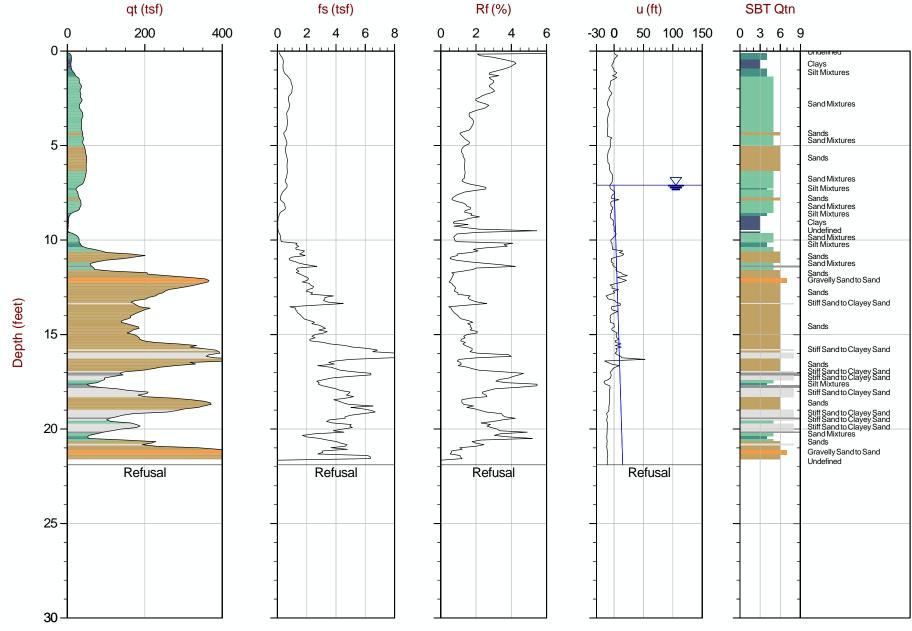


Job No: 23-53-26729 Date: 2023-10-25 15:20

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-014





Max Depth: 6.675 m / 21.90 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

File: 23-53-26729_CPB-014.COR Unit Wt: SBTQtn (PKR2009)

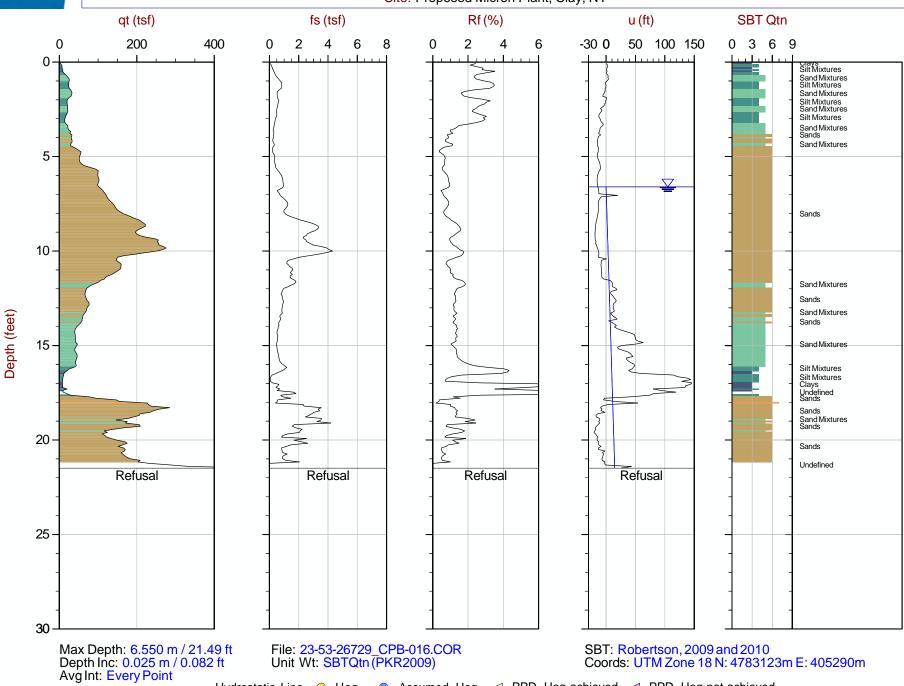
SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4783216m E: 405656m



Job No: 23-53-26729 Date: 2023-10-25 11:24

Site: Proposed Micron Plant, Clay, NY

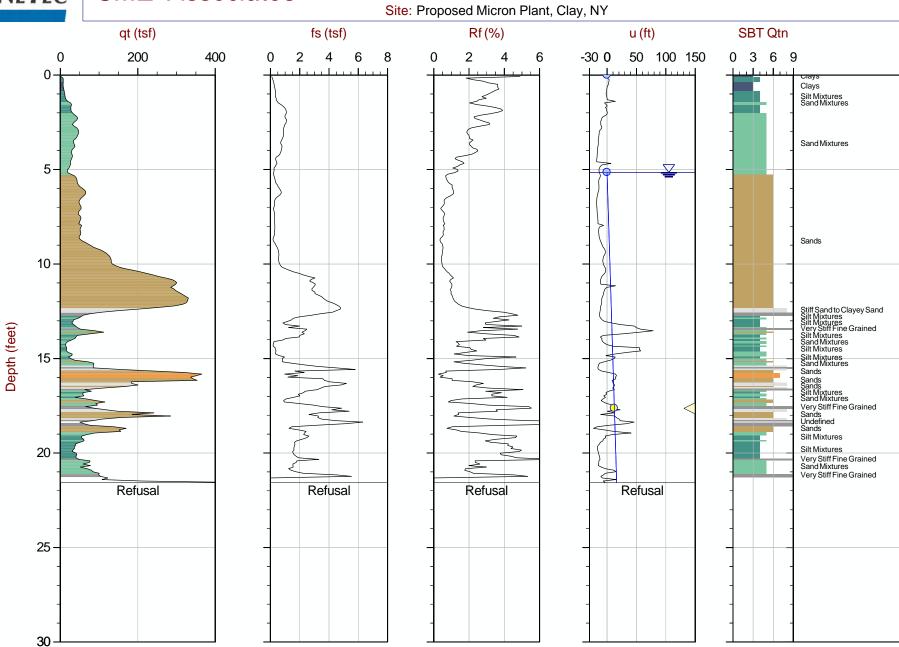
Sounding: CPT23-B-016 Cone: 604:T1500F15U35





Job No: 23-53-26729 Date: 2023-10-25 09:58

Sounding: CPT23-B-021 Cone: 604:T1500F15U35



Max Depth: 6.575 m / 21.57 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

File: 23-53-26729_CPB-021.COR Unit Wt: SBTQtn (PKR2009)

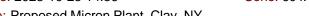
SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4783063m E: 405235m

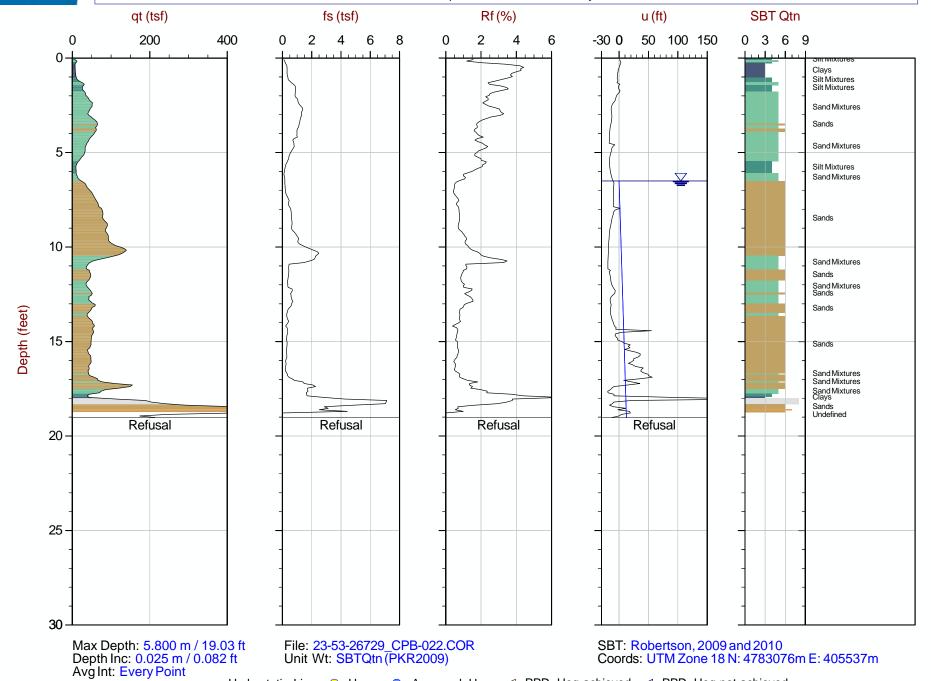
CONETEC CME Associates

Job No: 23-53-26729 Date: 2023-10-25 14:36

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-022 Cone: 604:T1500F15U35







CME Associates

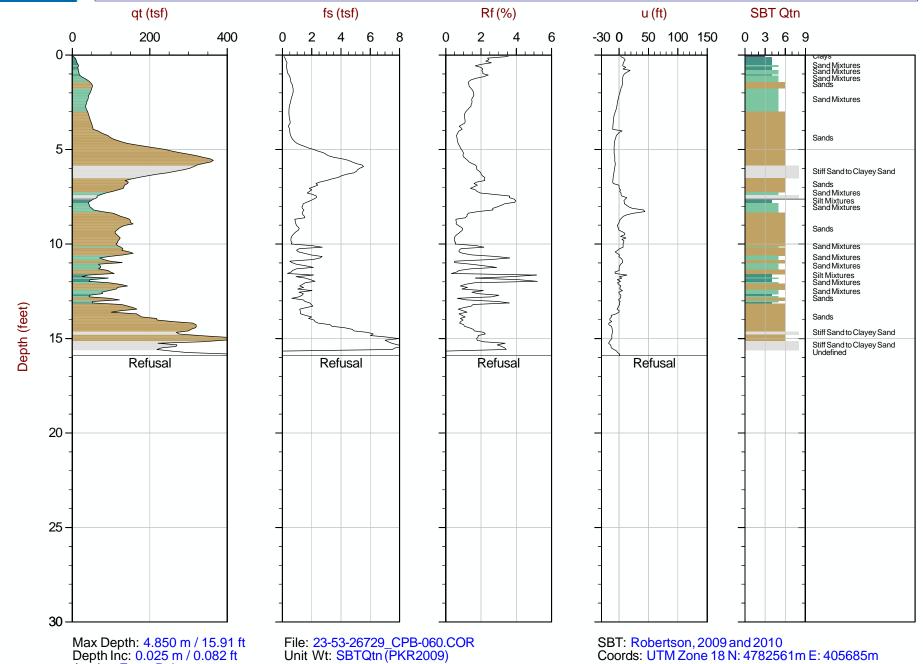
Job No: 23-53-26729

Date: 2023-10-24 13:10

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-060

Cone: 604:T1500F15U35



Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

PPD, Ueq not achieved 

PPD, Ue

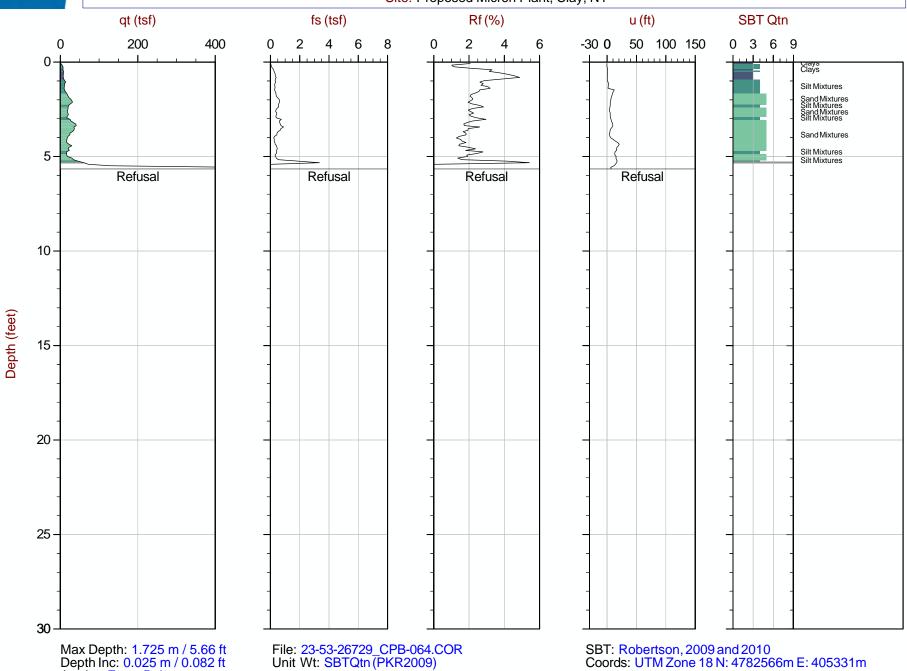


# CME Associates

Job No: 23-53-26729 Date: 2023-10-23 09:05

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064 Cone: 604:T1500F15U35



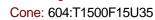


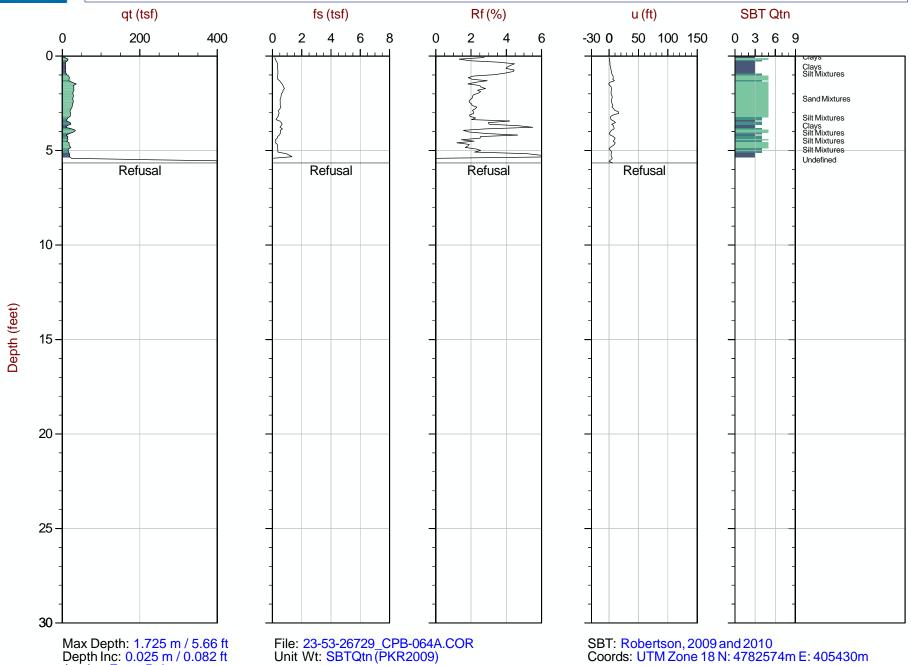
# CME Associates

Job No: 23-53-26729 Date: 2023-10-23 09:29

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064A





Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

PPD, Ueq not achieved 

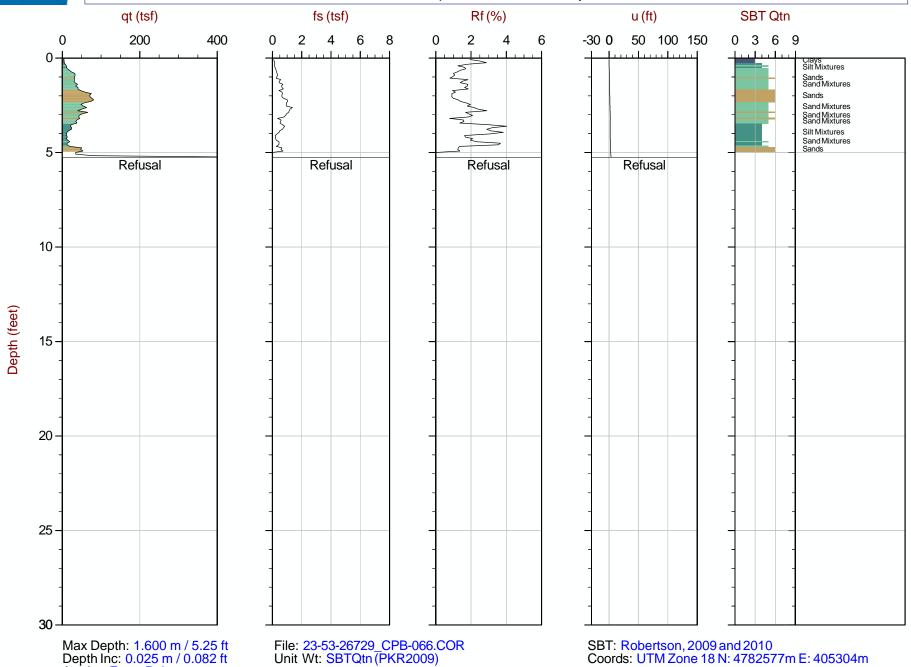
PPD, Ue



# CME Associates

Job No: 23-53-26729 Date: 2023-10-23 07:02 Sounding: CPT23-B-066 Cone: 604:T1500F15U35

Site: Proposed Micron Plant, Clay, NY





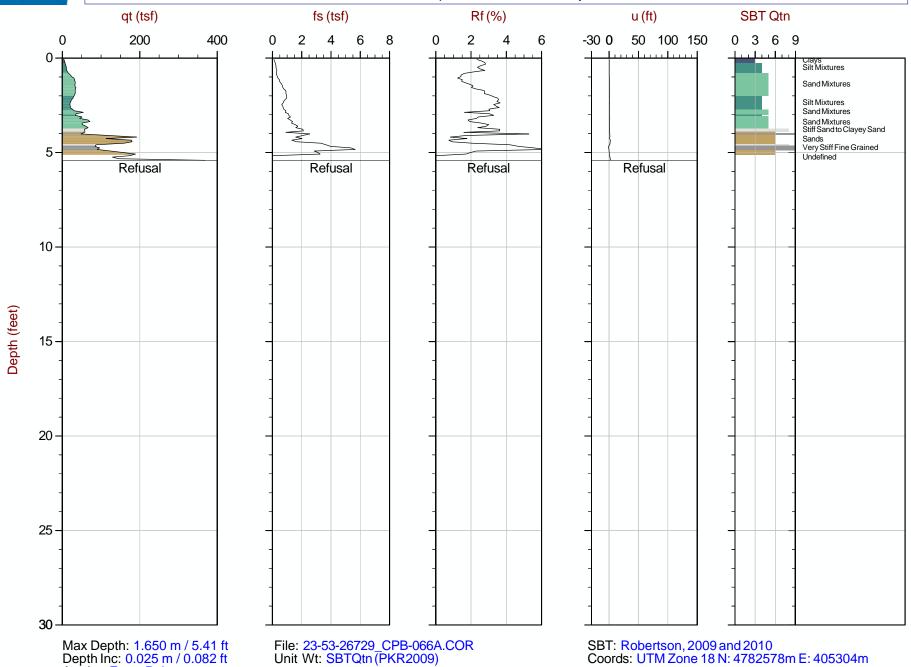
# CME Associates

Job No: 23-53-26729 Date: 2023-10-23 08:36

Cone: 604:T1500F15U35

Sounding: CPT23-B-066A

Site: Proposed Micron Plant, Clay, NY

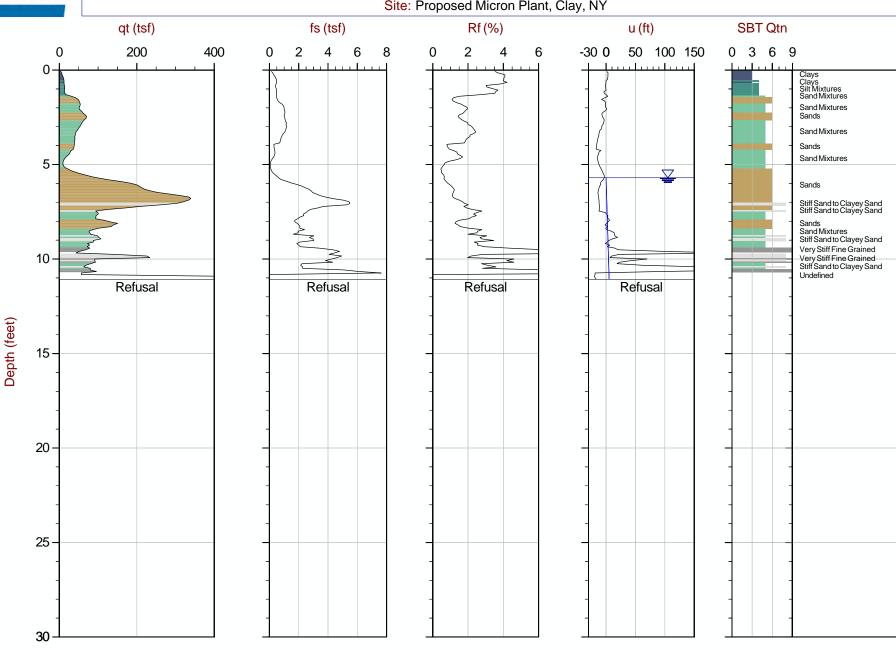




Job No: 23-53-26729 Date: 2023-10-24 13:47

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-070 Cone: 604:T1500F15U35



Max Depth: 3.375 m / 11.07 ft Depth Inc: 0.025 m / 0.082 ftAvg Int: Every Point

File: 23-53-26729_CPB-070.COR Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782528m E: 405678m

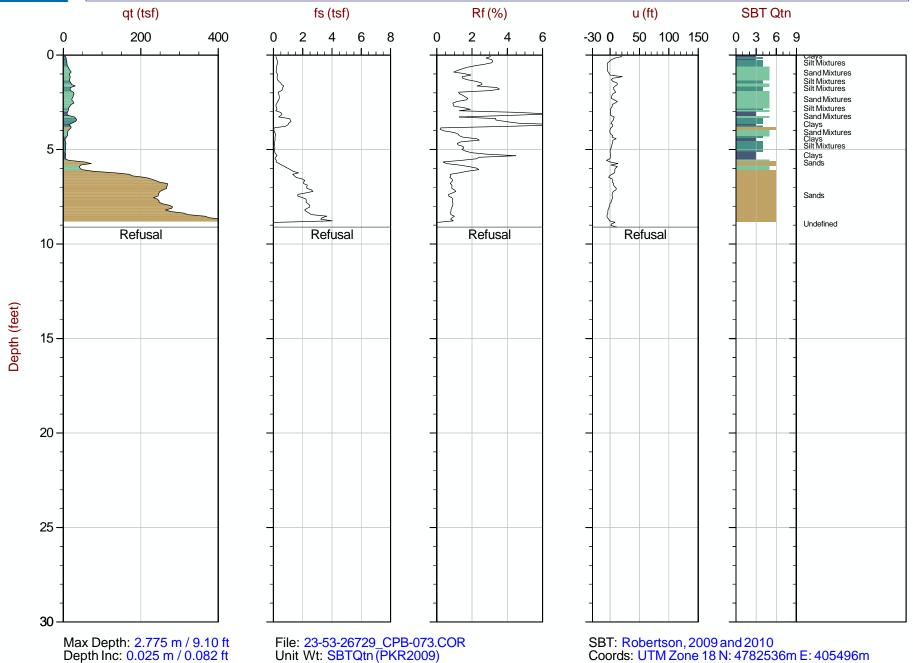


Job No: 23-53-26729 Date: 2023-10-23 10:47

Cone: 604:T1500F15U35

Sounding: CPT23-B-073

Site: Proposed Micron Plant, Clay, NY

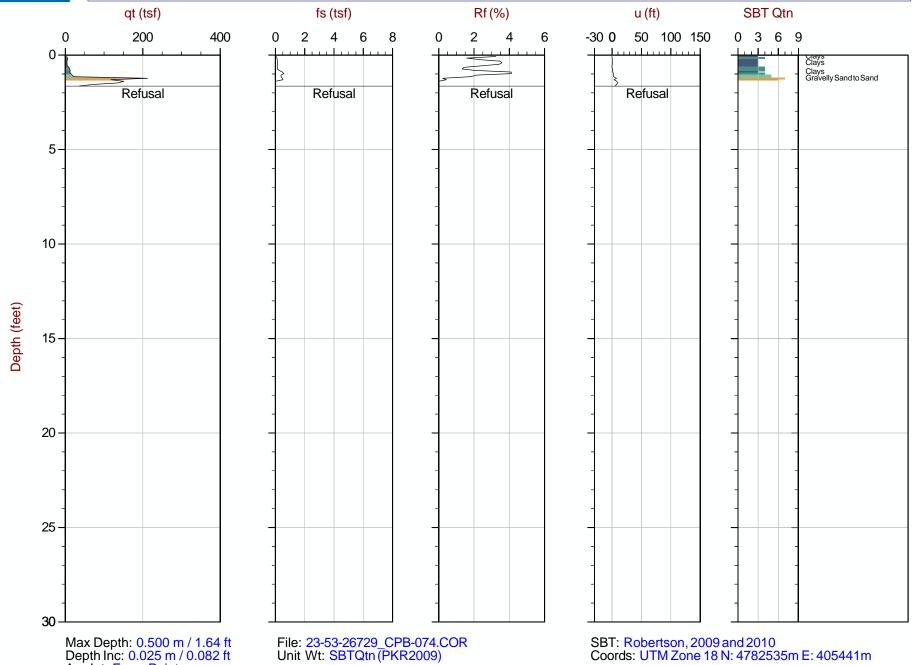




# CME Associates

Job No: 23-53-26729 Date: 2023-10-23 09:58 Sounding: CPT23-B-074 Cone: 604:T1500F15U35

Site: Proposed Micron Plant, Clay, NY





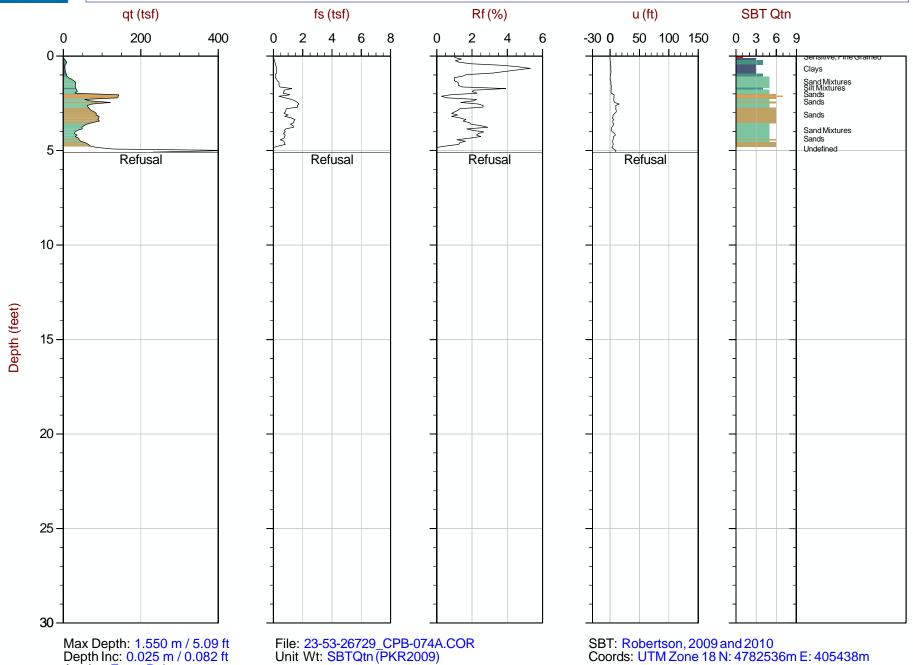
# CME Associates

Job No: 23-53-26729 Date: 2023-10-23 10:17

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074A

Cone: 604:T1500F15U35

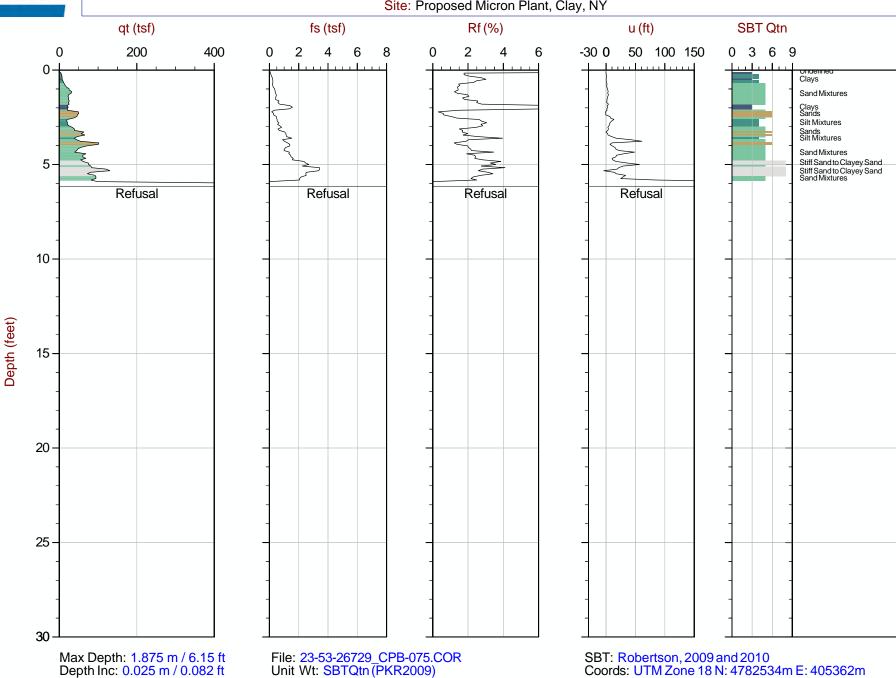




Job No: 23-53-26729 Date: 2023-10-23 11:10

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-075 Cone: 604:T1500F15U35



Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

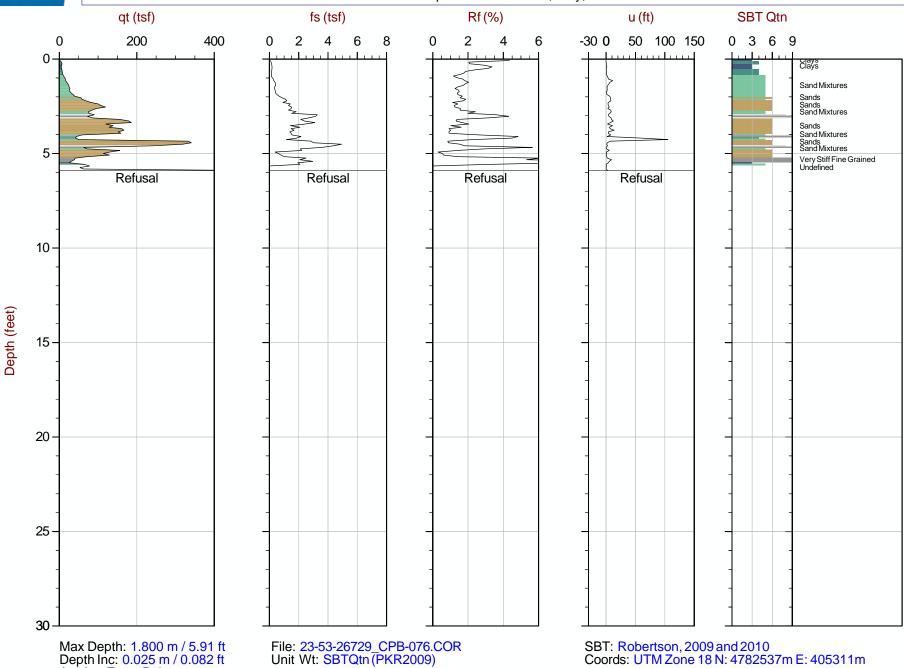


# CME Associates

Job No: 23-53-26729 Date: 2023-10-23 11:37

Site: Proposed Micron Plant, Clay, NY

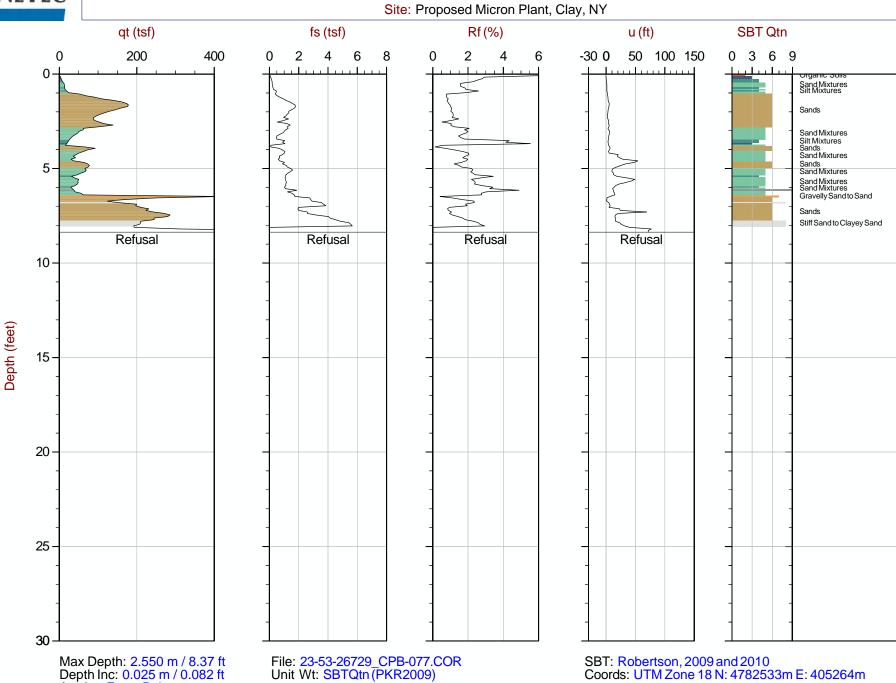
Sounding: CPT23-B-076 Cone: 604:T1500F15U35





Job No: 23-53-26729 Date: 2023-10-23 12:06

Sounding: CPT23-B-077 Cone: 604:T1500F15U35



Avg Int: Every Point Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

PPD, Ueq not achieved 

PPD, Ue

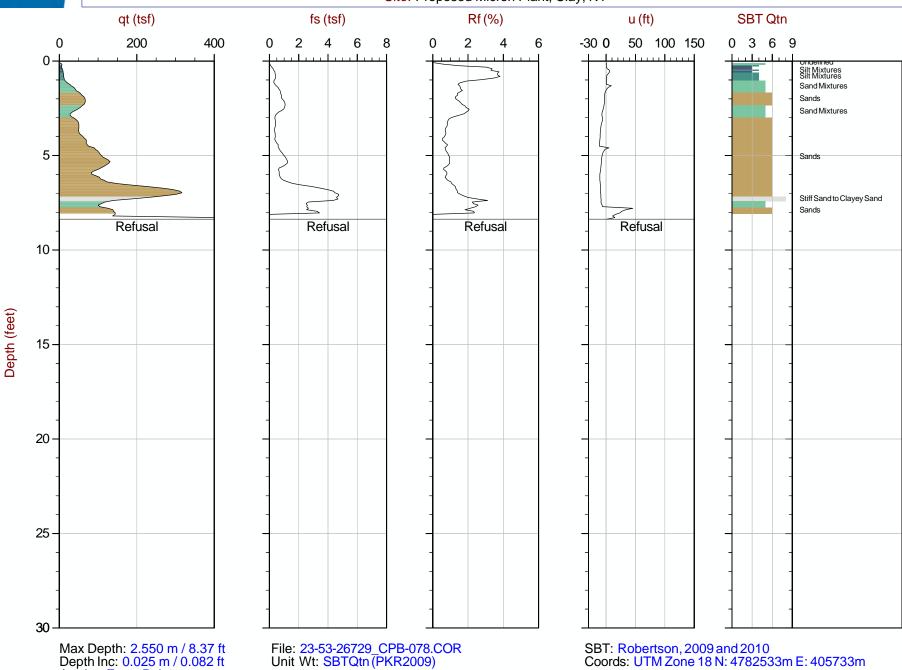


## CME Associates

Job No: 23-53-26729 Date: 2023-10-25 07:29

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-078 Cone: 604:T1500F15U35



Hydrostatic Line
 Ueq
 Assumed Ueq
 PPD, Ueq achieved
 PPD, Ueq not achieved

Refusal



5-

10

15

20

25

30

Depth (feet)

CME Associates

400

Job No: 23-53-26729 Date: 2023-10-24 14:26

fs (tsf)

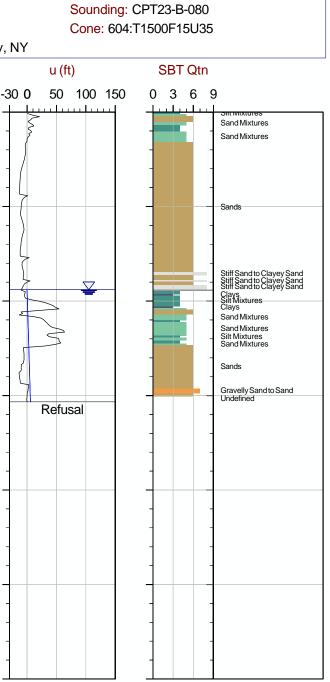
Refusal

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal





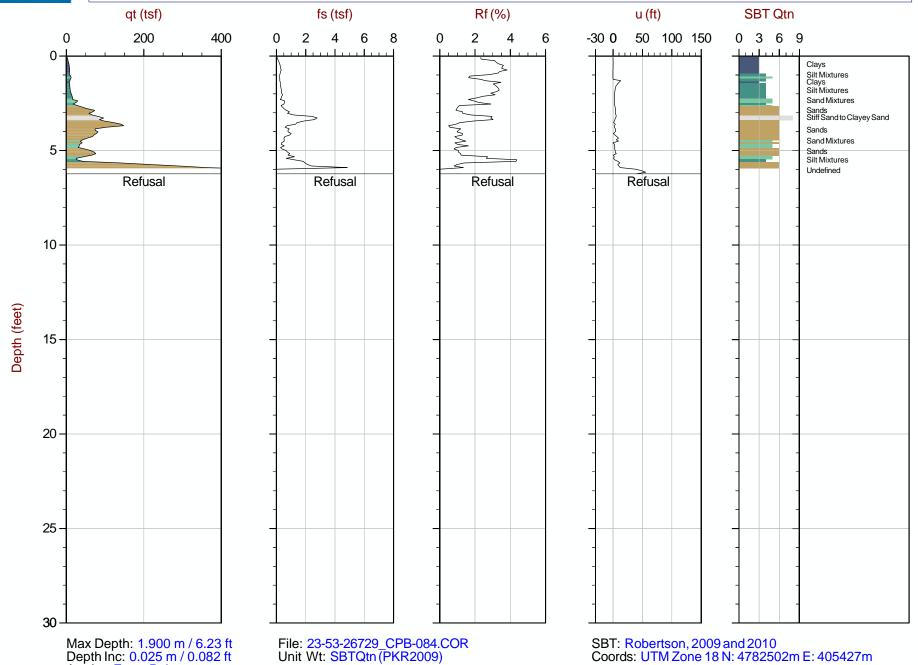
File: 23-53-26729_CPB-080.COR Unit Wt: SBTQtn (PKR2009) SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782485m E: 405681m

Hydrostatic Line 
● Ueq 
● Assumed Ueq 
< PPD, Ueq achieved 
< PPD, Ueq not achieved



## CME Associates

Job No: 23-53-26729 Date: 2023-10-23 13:38 Sounding: CPT23-B-084 Cone: 604:T1500F15U35



Refusal



0

5-

10

15

20

25

Depth (feet)

## CME Associates

400

Job No: 23-53-26729 Date: 2023-10-23 12:54

fs (tsf)

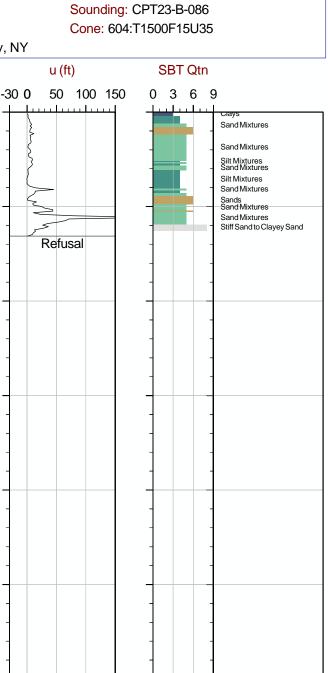
Refusal

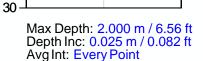
6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal





File: 23-53-26729_CPB-086.COR Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782506m E: 405306m

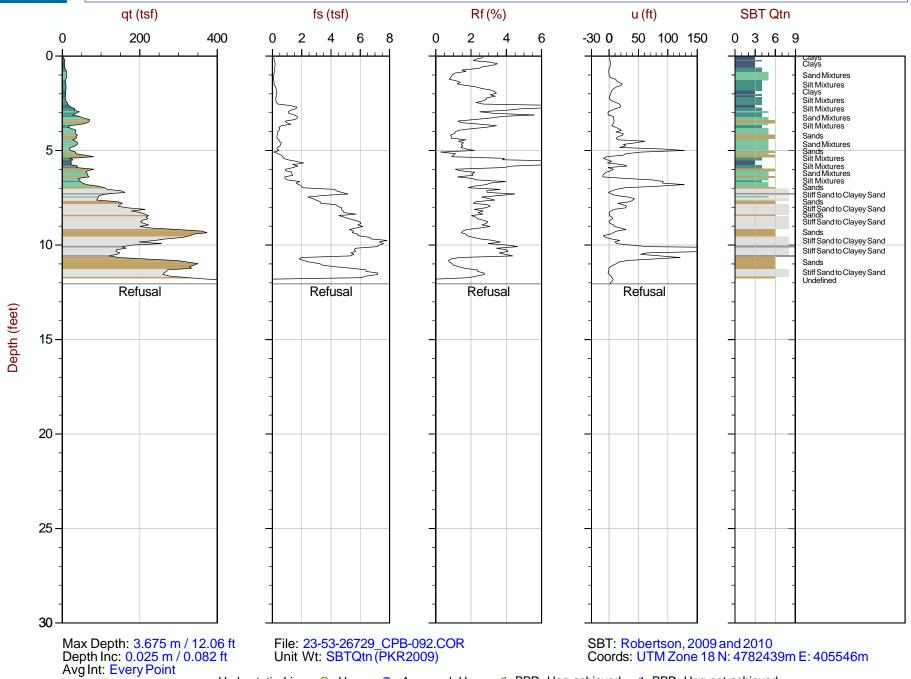
Sounding: CPT23-B-092

Cone: 604:T1500F15U35



## CME Associates

Job No: 23-53-26729 Date: 2023-10-23 14:25

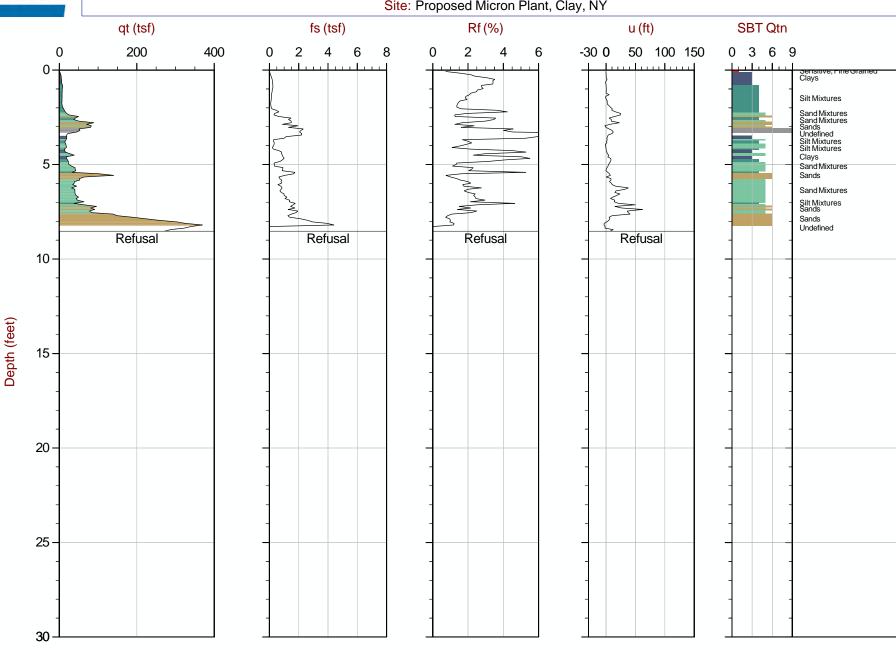




Job No: 23-53-26729 Date: 2023-10-23 14:11

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-093 Cone: 604:T1500F15U35



Max Depth: 2.600 m / 8.53 ft Depth Inc: 0.025 m / 0.082 ftAvg Int: Every Point

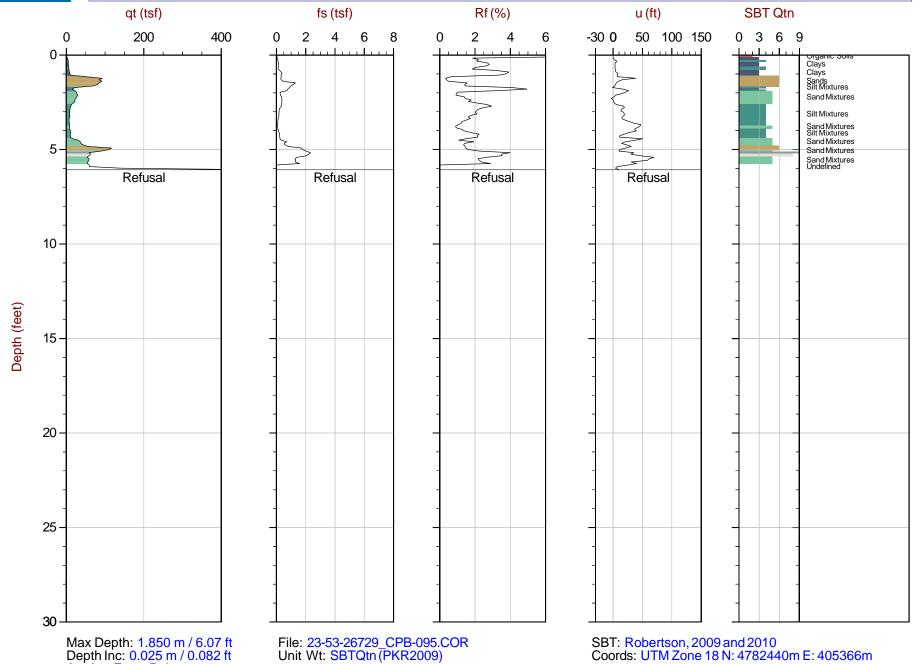
File: 23-53-26729_CPB-093.COR Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782440m E: 405488m



## CME Associates

Job No: 23-53-26729 Date: 2023-10-24 07:28 Sounding: CPT23-B-095 Cone: 604:T1500F15U35



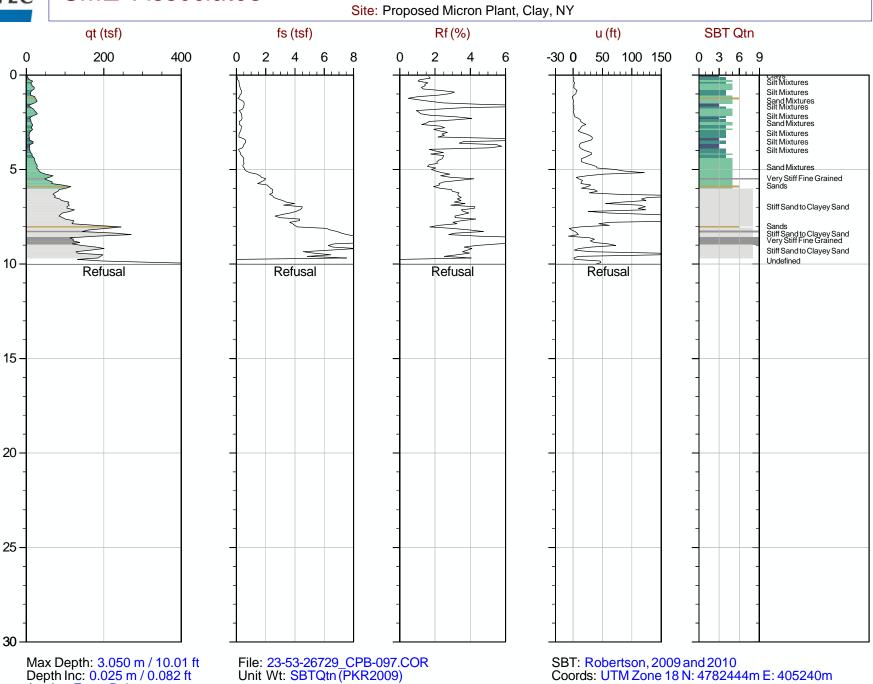


Depth (feet)

Avg Int: Every Point

## CME Associates

Job No: 23-53-26729 Date: 2023-10-23 12:45 Sounding: CPT23-B-097 Cone: 604:T1500F15U35



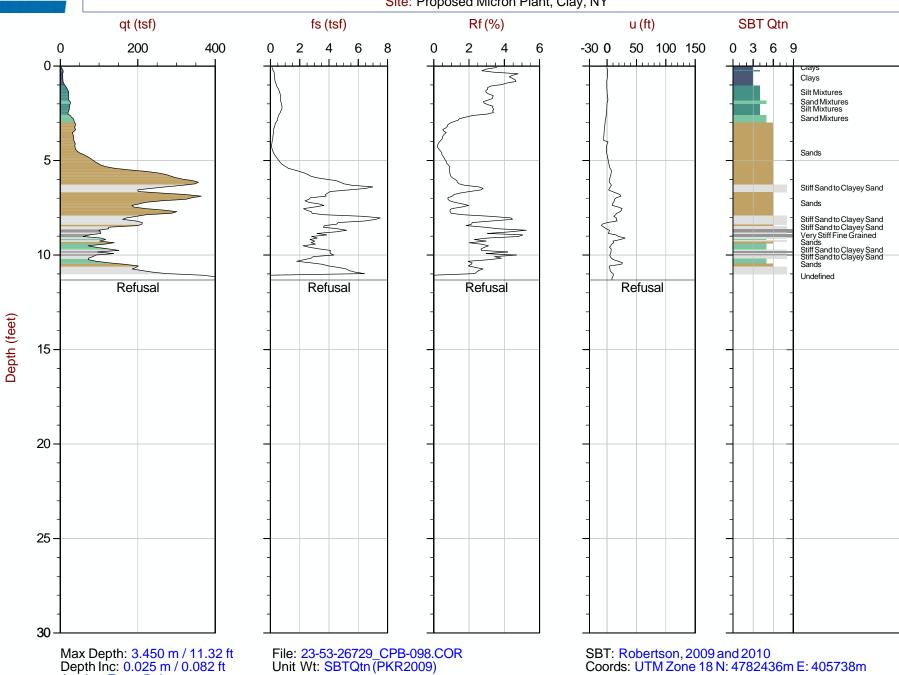
— Hydrostatic Line ○ Ueq ○ Assumed Ueq < PPD, Ueq achieved < PPD, Ueq not achieved



Job No: 23-53-26729 Date: 2023-10-25 08:00

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-098 Cone: 604:T1500F15U35



Avg Int: Every Point

Hydrostatic Line ○ Ueq ○ Assumed Ueq < PPD, Ueq achieved < PPD, Ueq not achieved

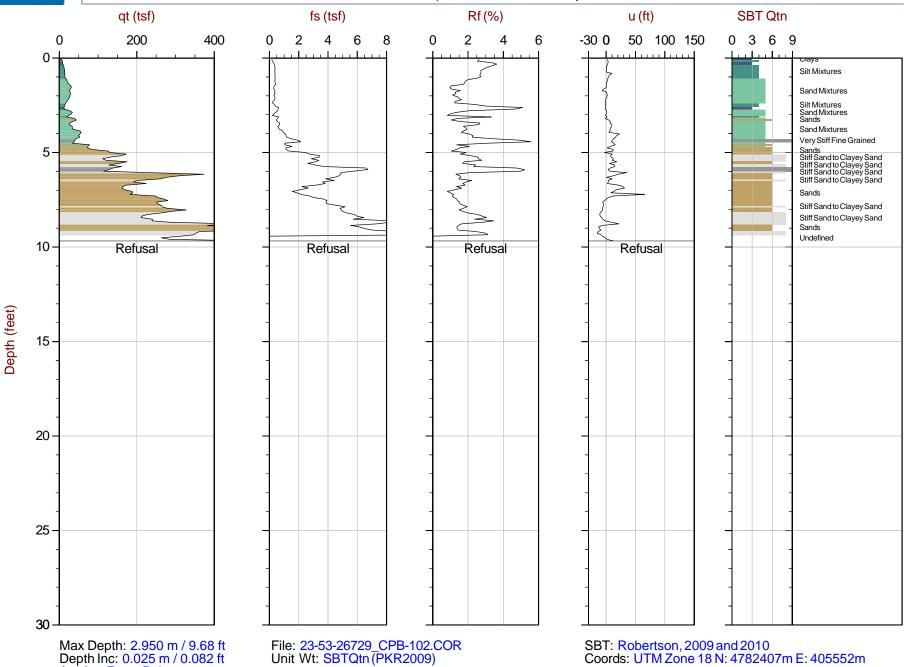


## CME Associates

Job No: 23-53-26729 Date: 2023-10-24 11:28

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-102 Cone: 604:T1500F15U35



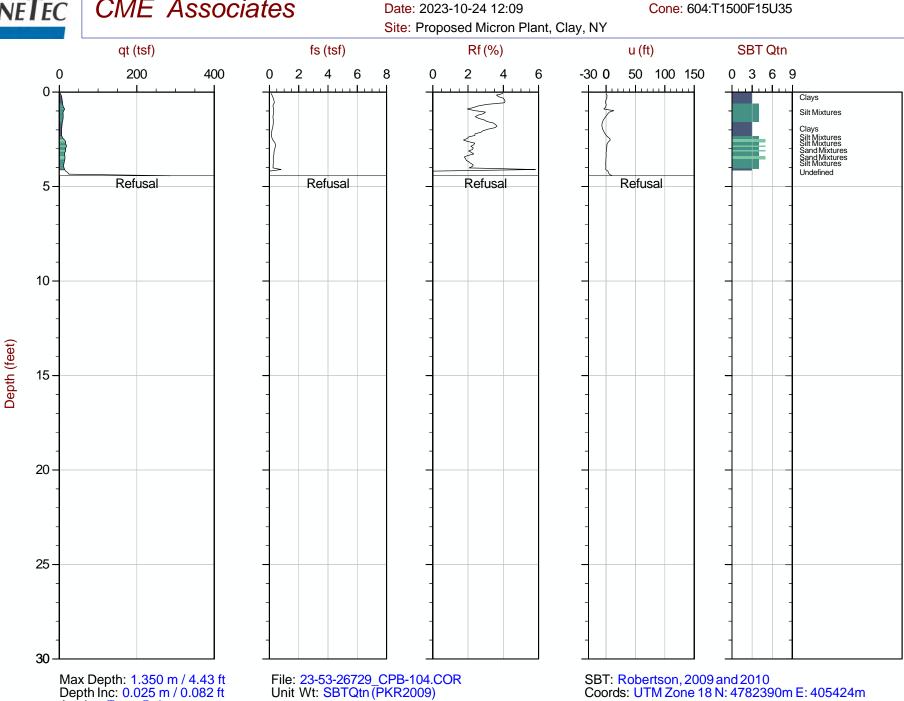
Sounding: CPT23-B-104



## CME Associates

Job No: 23-53-26729

Date: 2023-10-24 12:09



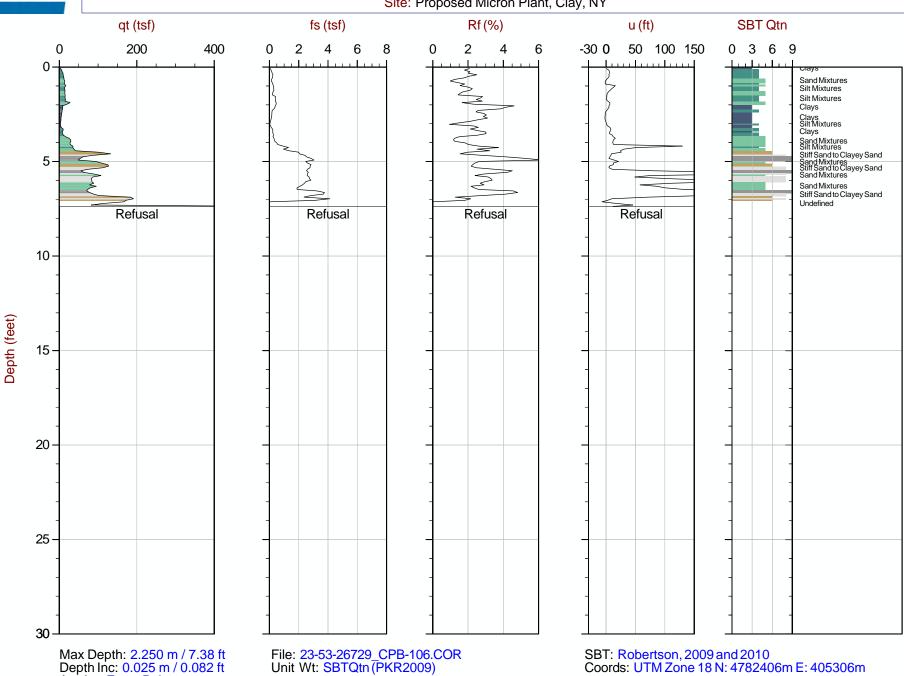


## CME Associates

Job No: 23-53-26729 Date: 2023-10-24 08:37

Site: Proposed Micron Plant, Clay, NY

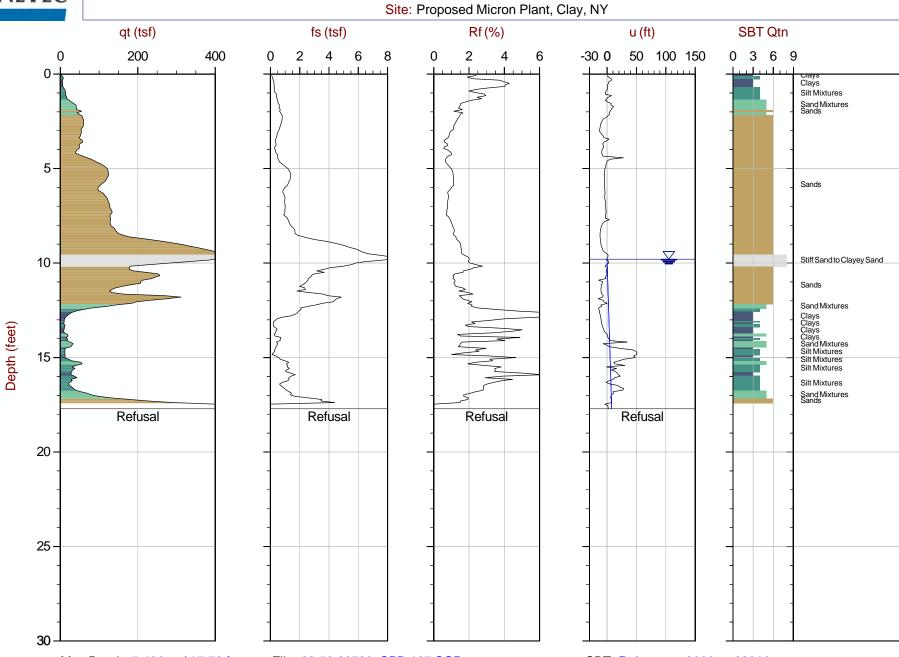
Sounding: CPT23-B-106 Cone: 604:T1500F15U35





Job No: 23-53-26729 Date: 2023-10-25 08:35

Sounding: CPT23-B-107 Cone: 604:T1500F15U35



Max Depth: 5.400 m / 17.72 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

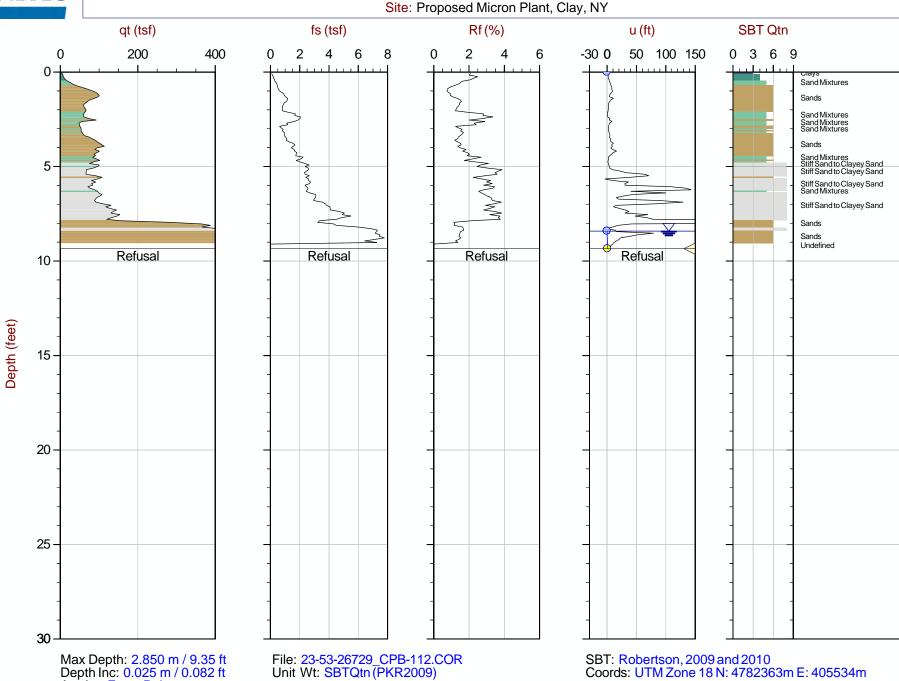
File: 23-53-26729_CPB-107.COR Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782397m E: 405742m



Job No: 23-53-26729 Date: 2023-10-24 10:50

Sounding: CPT23-B-112 Cone: 604:T1500F15U35



Avg Int: Every Point

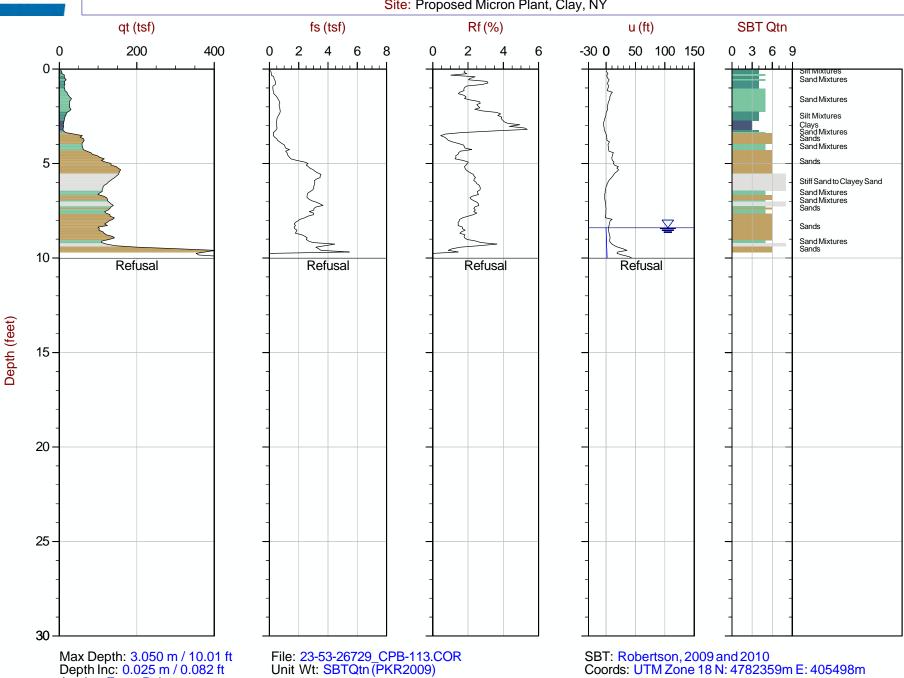


## CME Associates

Job No: 23-53-26729 Date: 2023-10-24 09:36

Site: Proposed Micron Plant, Clay, NY

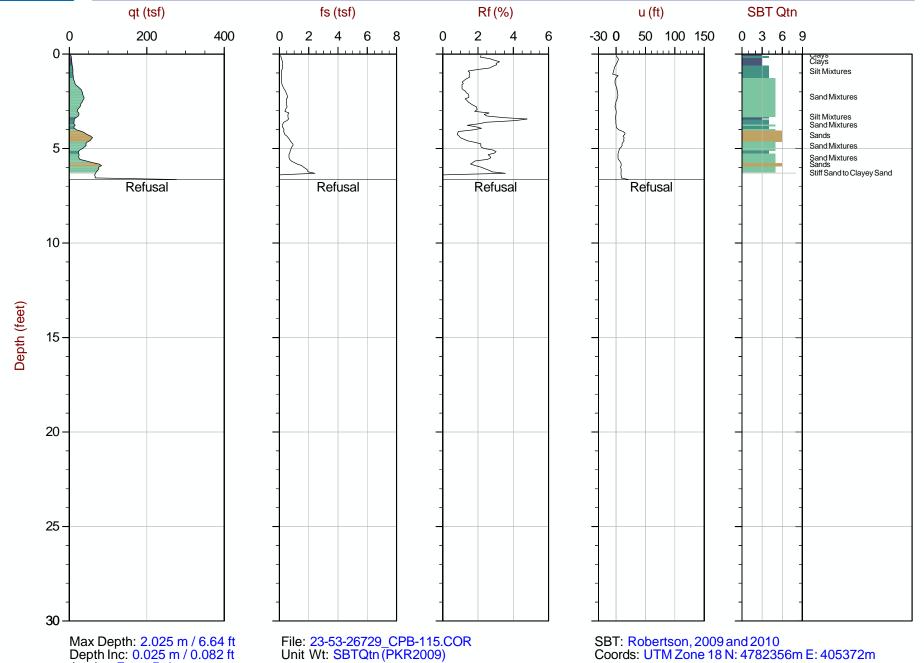
Sounding: CPT23-B-113 Cone: 604:T1500F15U35





## CME Associates

Job No: 23-53-26729 Date: 2023-10-24 09:03 Sounding: CPT23-B-115 Cone: 604:T1500F15U35



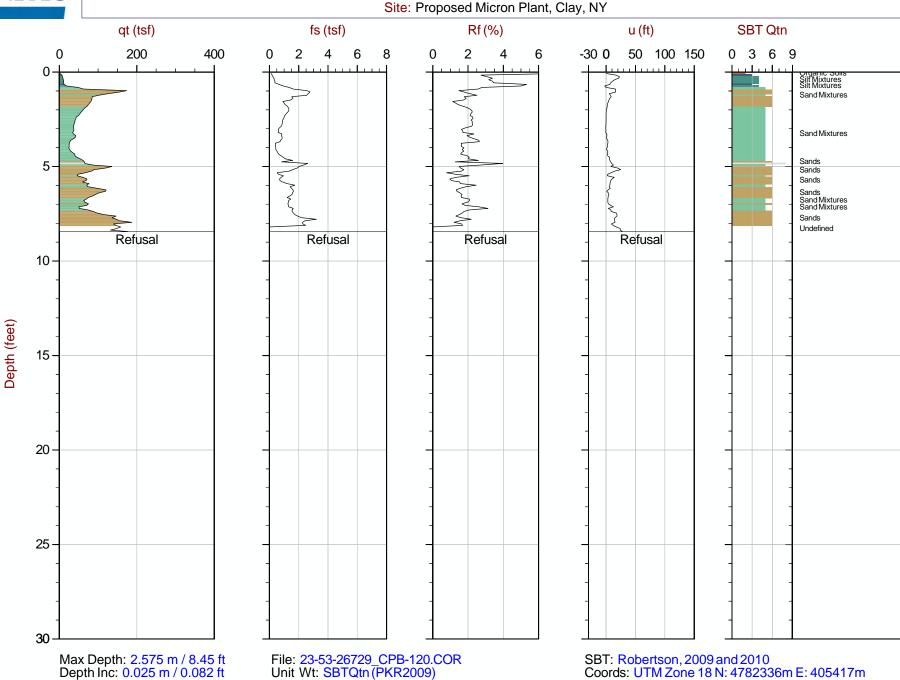
Depth Inc: 0.025 m / 0.082 ft



## CME Associates

Job No: 23-53-26729 Date: 2023-10-24 10:14

Sounding: CPT23-B-120 Cone: 604:T1500F15U35



Avg Int: Every Point Hydrostatic Line 

Ueq 

Assumed Ueq 

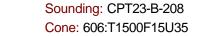
PPD, Ueq achieved 

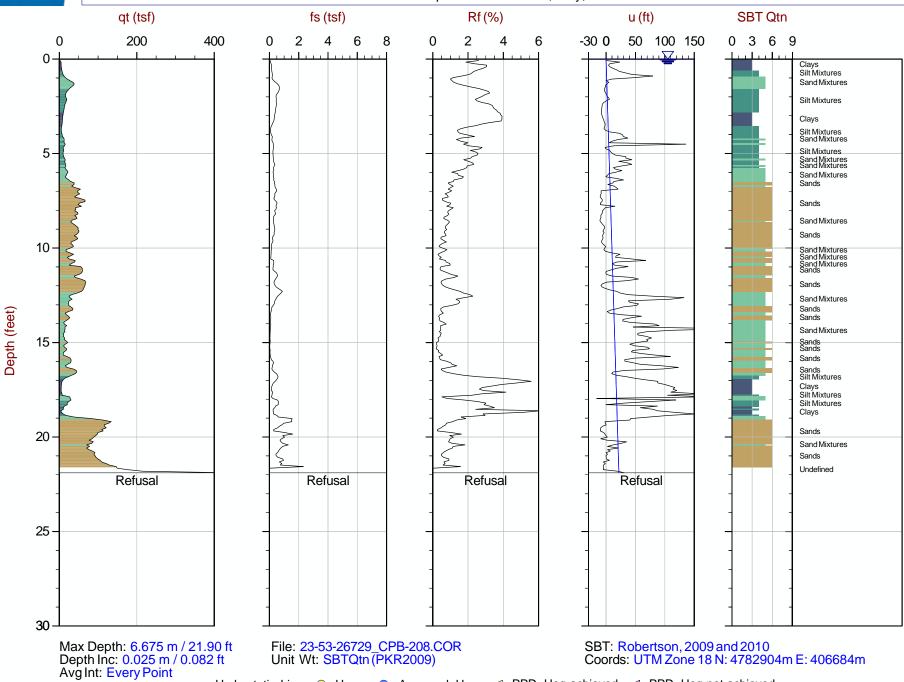
PPD, Ueq not achieved 

PPD, Ue



Job No: 23-53-26729 Date: 2023-10-27 14:56





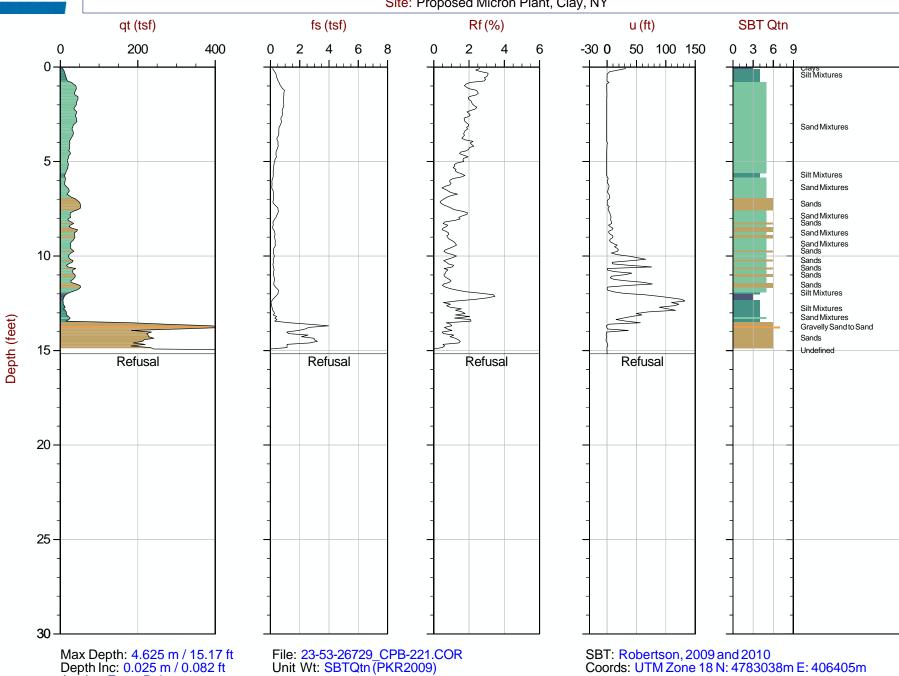
CONETEC

CME Associates

Job No: 23-53-26729 Date: 2023-10-27 10:44

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-221 Cone: 606:T1500F15U35



Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

PPD, Ueq not achieved 

PPD, Ue

200



0

5-

10

15

20

25

30

Depth (feet)

## CME Associates

400

Job No: 23-53-26729 Date: 2023-10-27 11:16

fs (tsf)

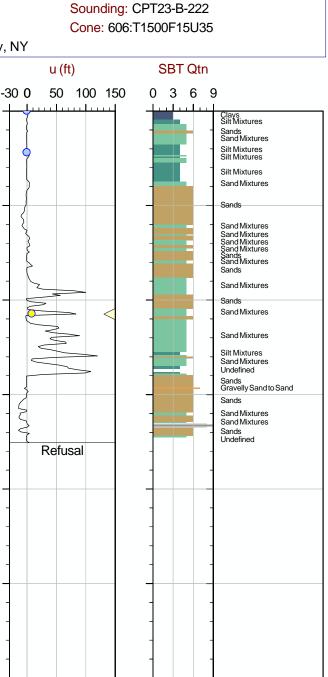
Refusal

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal





Refusal

File: 23-53-26729_CPB-222.COR Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4783002m E: 406458m

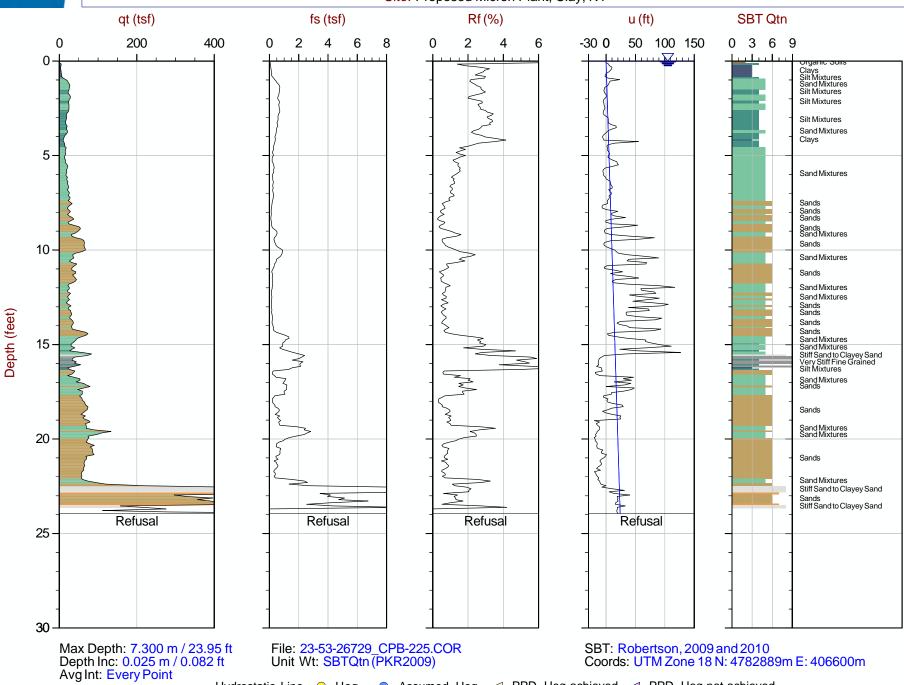
CONETEC

## CME Associates

Job No: 23-53-26729 Date: 2023-10-27 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-225 Cone: 606:T1500F15U35



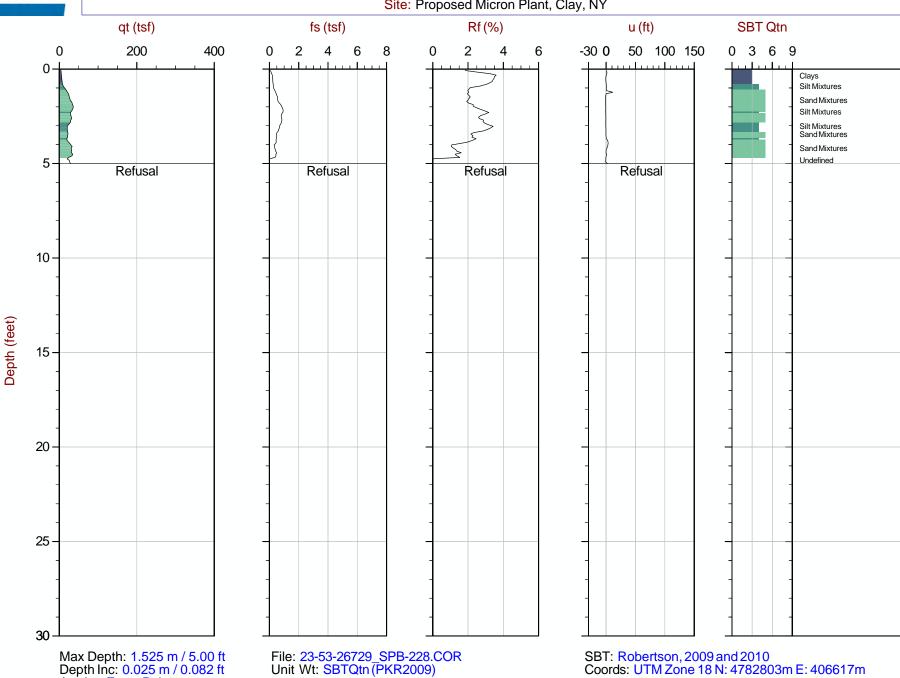


## CME Associates

Job No: 23-53-26729 Date: 2023-10-27 12:08

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228 Cone: 606:T1500F15U35

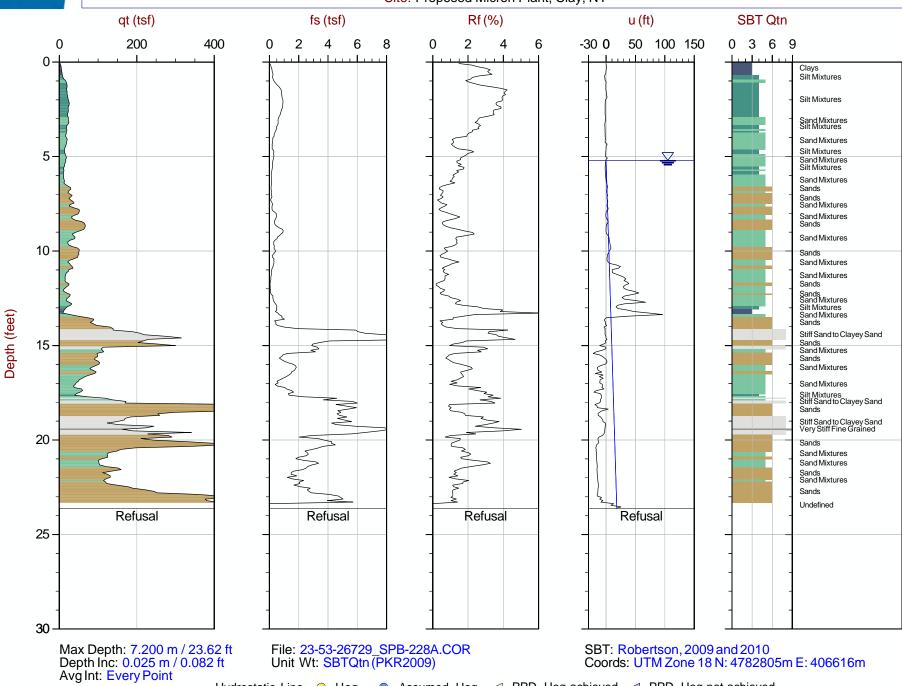




Job No: 23-53-26729 Date: 2023-10-27 13:08

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A Cone: 606:T1500F15U35

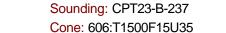


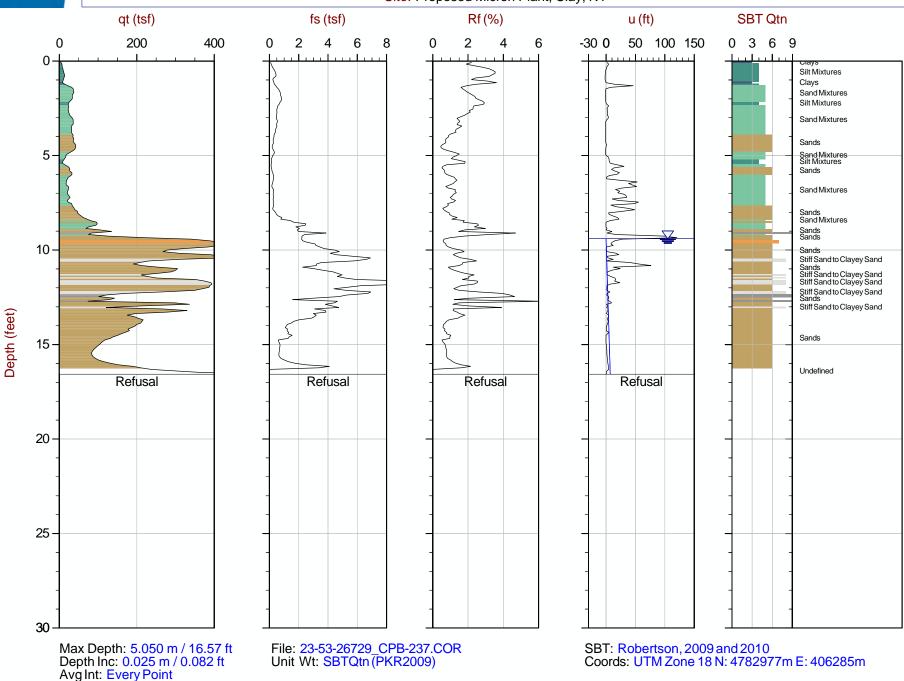
Hydrostatic Line Ueq Assumed Ueq PPD, Ueq achieved PPD, Ueq not achieved



Job No: 23-53-26729

Date: 2023-10-27 09:53





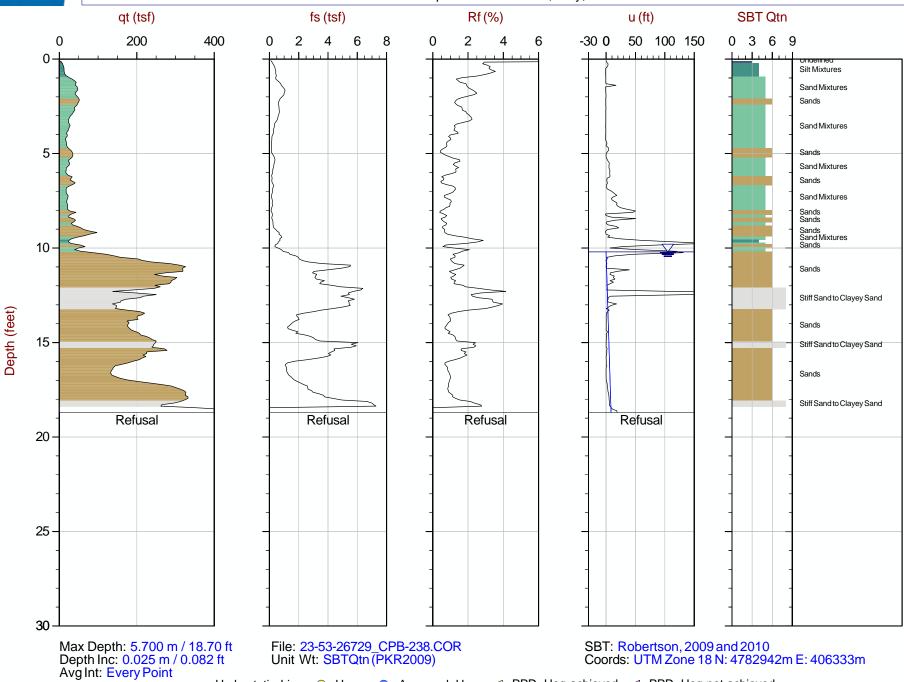


CONETEC CME Associates

Job No: 23-53-26729 Date: 2023-10-27 10:16

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-238 Cone: 606:T1500F15U35



Refusal



0

5

10

15

20

25

30

Depth (feet)

# CONETEC CME Associates

400

Job No: 23-53-26729 Date: 2023-10-26 07:33

fs (tsf)

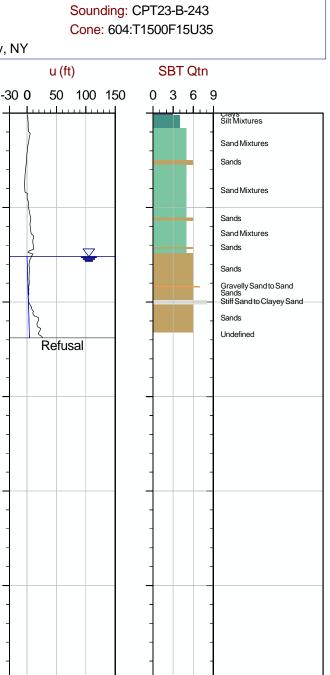
Refusal

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal





File: 23-53-26729_CPB-243.COR Unit Wt: SBTQtn (PKR2009) SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782901m E: 406077m

Hydrostatic Line ○ Ueq ○ Assumed Ueq < PPD, Ueq achieved < PPD, Ueq not achieved

CONETEC

0

5-

10

15

20

25

Depth (feet)

CME Associates

400

Job No: 23-53-26729

fs (tsf)

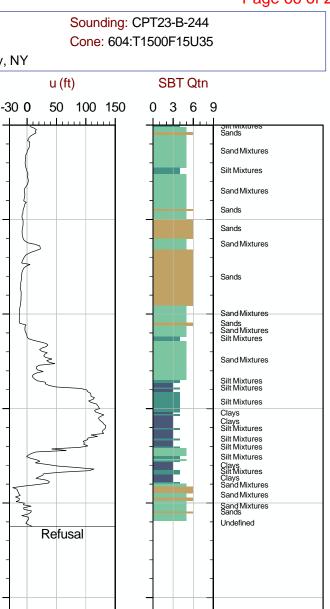
6

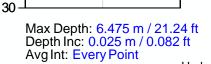
Date: 2023-10-26 09:50

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal





Refusal

File: 23-53-26729_CPB-244.COR Unit Wt: SBTQtn (PKR2009)

Refusal

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782940m E: 406022m

Hydrostatic Line Ueq Assumed Ueq PPD, Ueq achieved PPD, Ueq not achieved

The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

Refusal



0

5

10

15

20

25

30

Depth (feet)

## CME Associates

400

Job No: 23-53-26729 Date: 2023-10-26 11:06

fs (tsf)

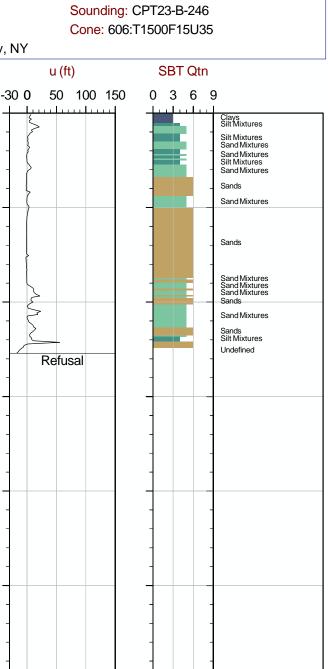
Refusal

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal



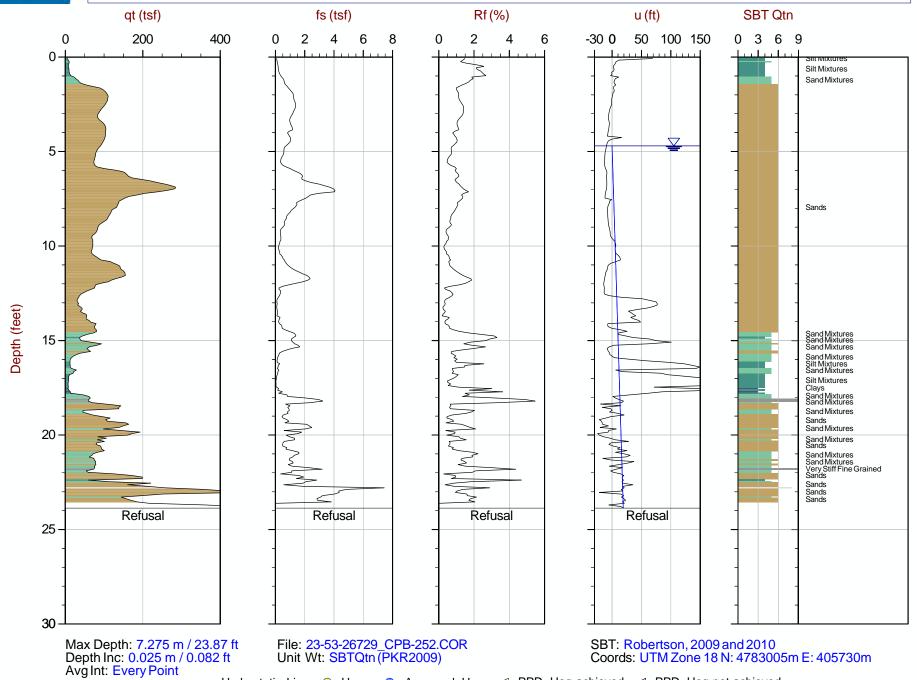
Max Depth: 3.875 m / 12.71 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point File: 23-53-26729_CPB-246.COR Unit Wt: SBTQtn (PKR2009) SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782950m E: 405893m

2001d0. 21W20N0 101V. 17 02000M2.

CONETEC

CME Associates

Job No: 23-53-26729 Date: 2023-10-26 12:00 Sounding: CPT23-B-252 Cone: 606:T1500F15U35

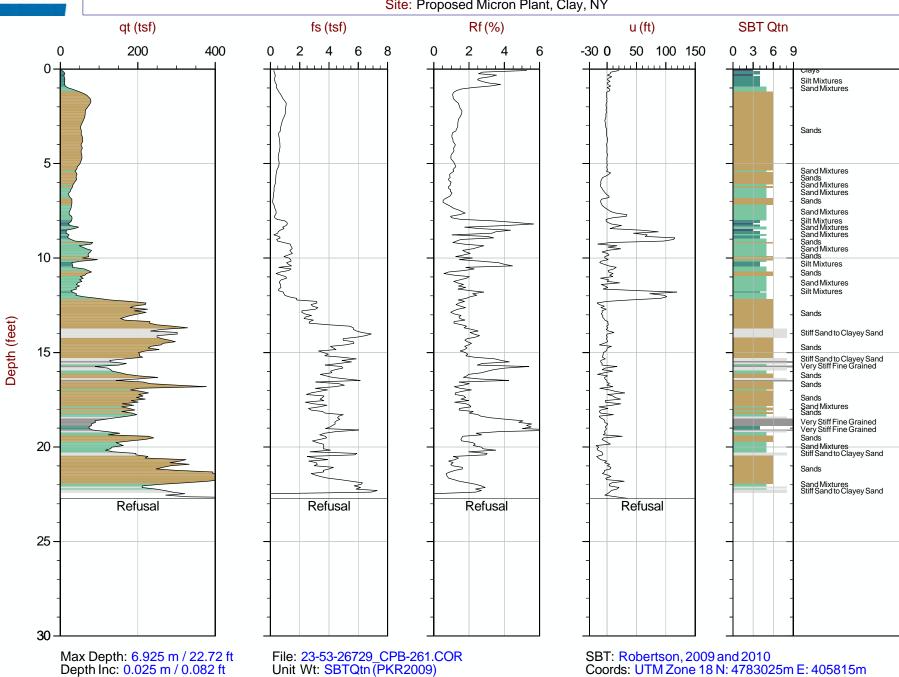




Job No: 23-53-26729 Date: 2023-10-26 12:47

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-261 Cone: 606:T1500F15U35



Max Depth: 6.925 m / 22.72 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

Hydrostatic Line 

Ueq 

Assumed Ueq 

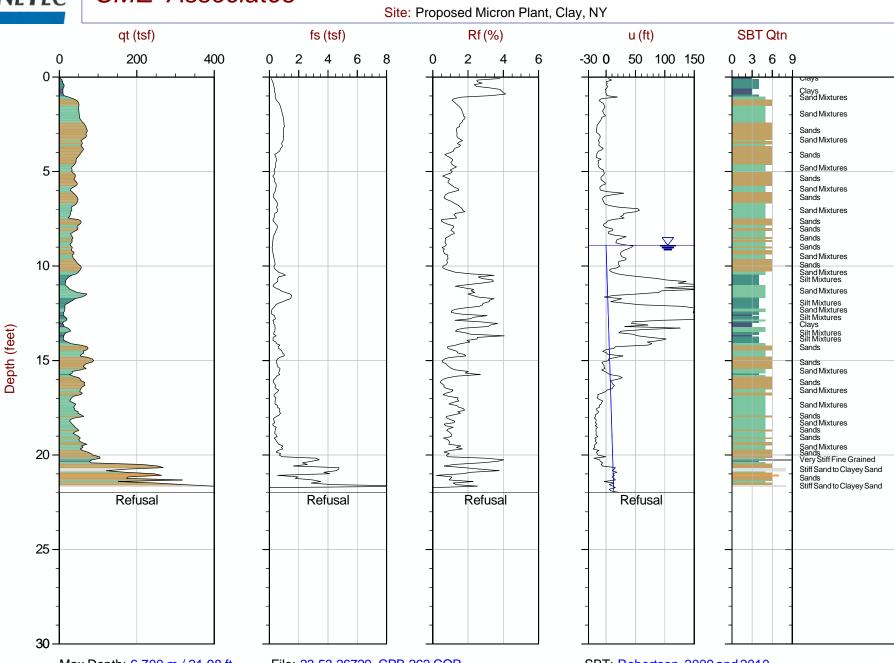
PPD, Ueq achieved 

PPD, Ueq not achieved 

PPD, Ue



Job No: 23-53-26729 Date: 2023-10-26 15:56 Sounding: CPT23-B-262 Cone: 606:T1500F15U35



Max Depth: 6.700 m / 21.98 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

File: 23-53-26729_CPB-262.COR Unit Wt: SBTQtn (PKR2009)

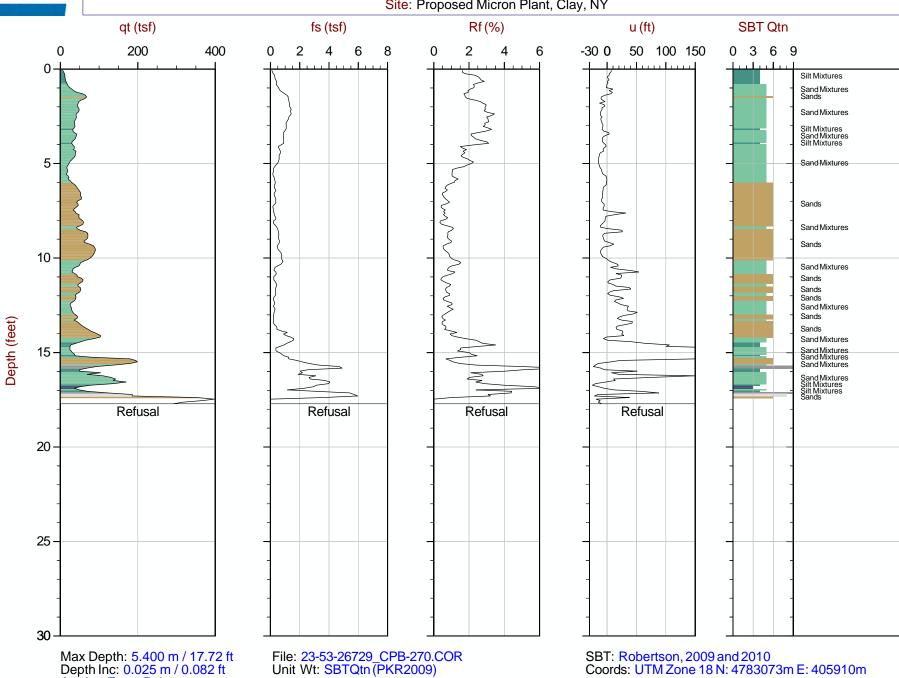
SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782994m E: 405928m



Job No: 23-53-26729 Date: 2023-10-26 13:48

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-270 Cone: 606:T1500F15U35



Avg Int: Every Point Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

PPD, Ueq not achieved 

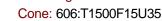
PPD, Ue

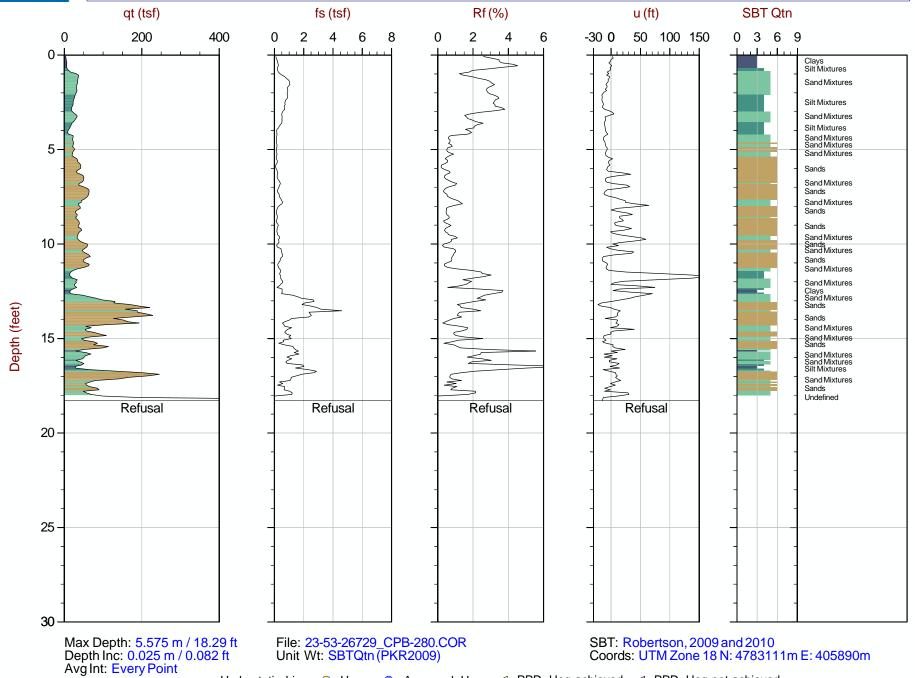


Job No: 23-53-26729 Date: 2023-10-26 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-280





Hydrostatic Line 

Ueq 

Assumed Ueq 

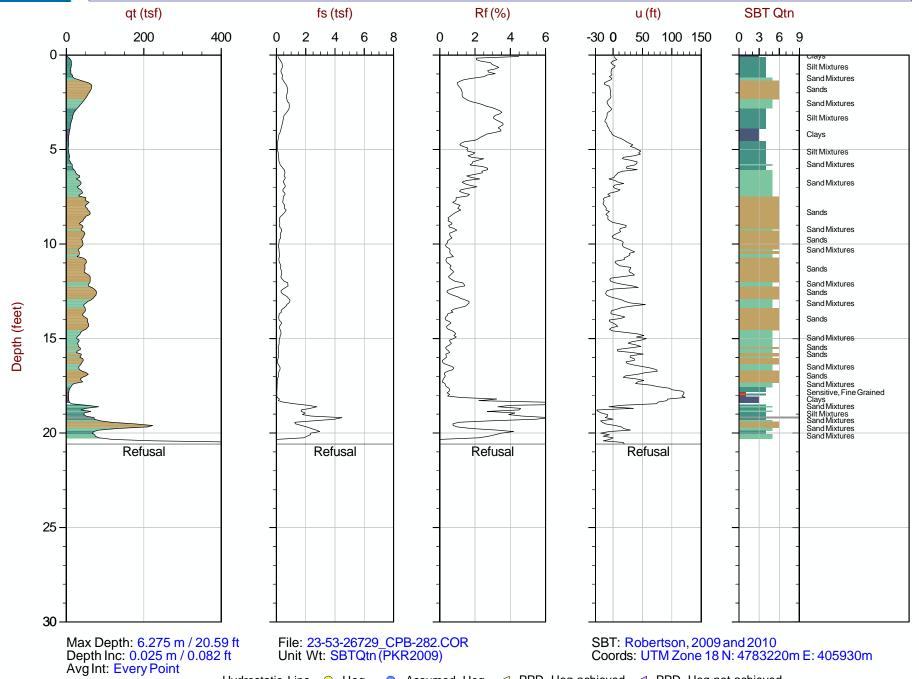
PPD, Ueq achieved 

PPD, Ueq not achieved 

PPD, Ue



Job No: 23-53-26729 Date: 2023-10-26 15:06 Sounding: CPT23-B-282 Cone: 606:T1500F15U35



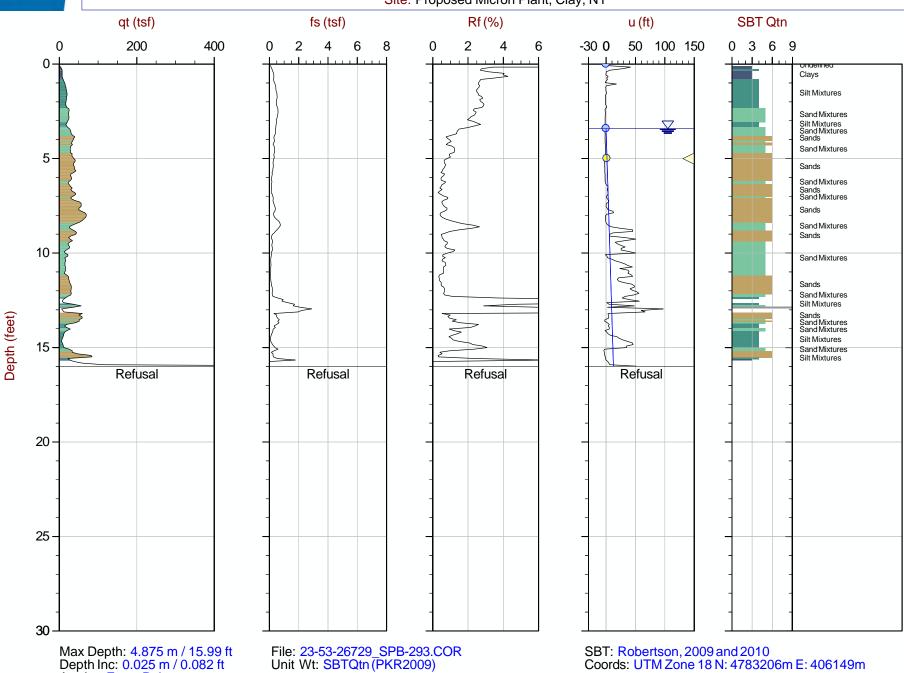


## CME Associates

Job No: 23-53-26729 Date: 2023-10-27 08:32

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293 Cone: 606:T1500F15U35



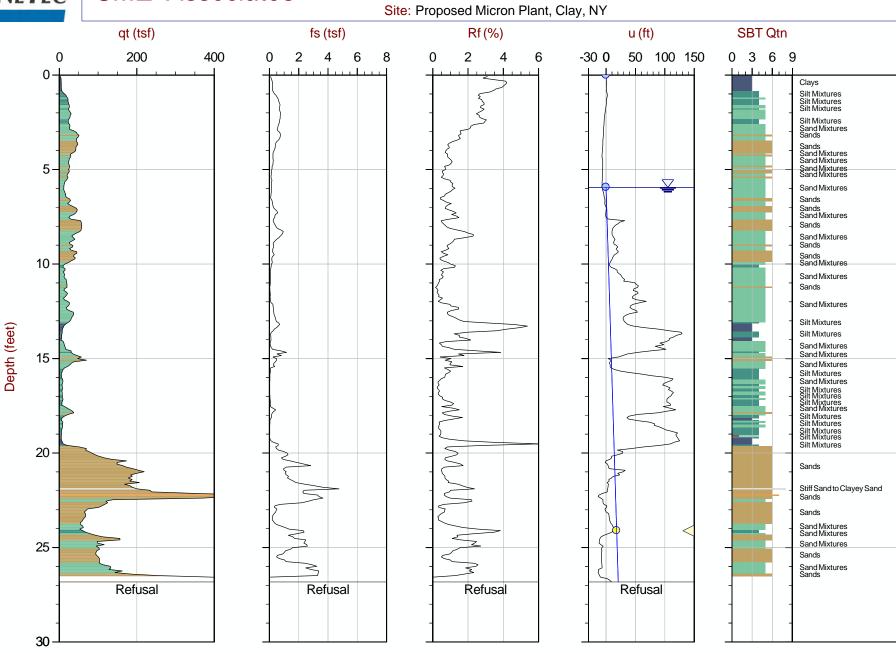
Hydrostatic Line ○ Ueq ○ Assumed Ueq < PPD, Ueq achieved < PPD, Ueq not achieved</li>



Job No: 23-53-26729

Date: 2023-10-26 08:32

Sounding: CPT23-B-312 Cone: 604:T1500F15U35



Max Depth: 8.175 m / 26.82 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point File: 23-53-26729_CPB-312.COR Unit Wt: SBTQtn (PKR2009) SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782765m E: 406355m

Hydrostatic Line 
● Ueq 
● Assumed Ueq 
< PPD, Ueq achieved 
< PPD, Ueq not achieved



0

5

10

15

20

25

30

Depth (feet)

CME Associates

400

Job No: 23-53-26729 Date: 2023-10-28 11:06

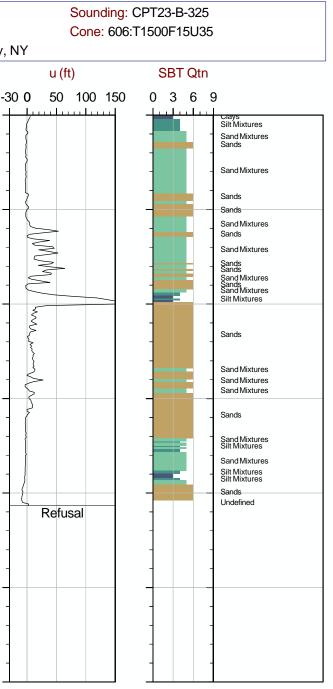
fs (tsf)

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal





Refusal

File: 23-53-26729_CPB-325.COR Unit Wt: SBTQtn (PKR2009)

Refusal

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782627m E: 406459m



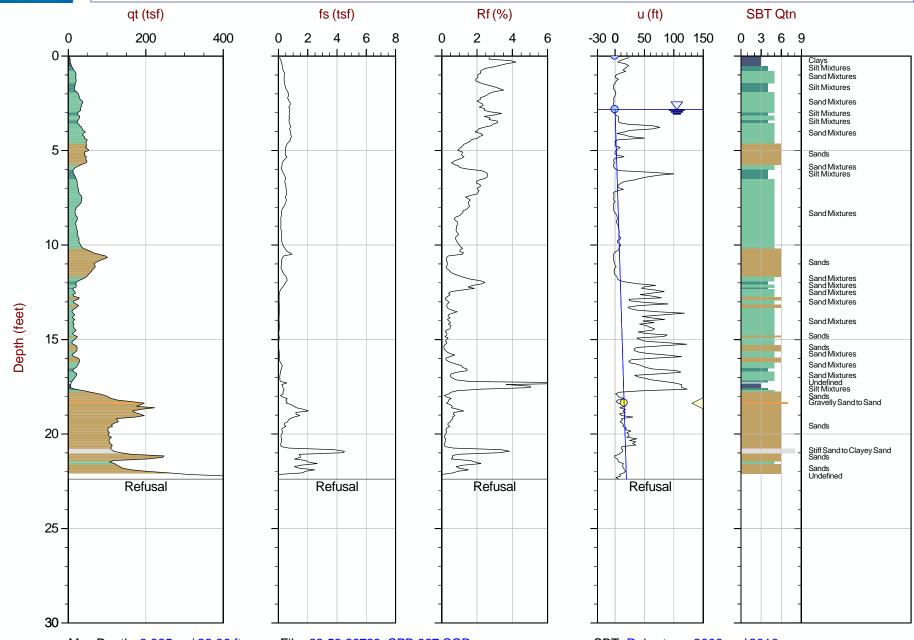
Job No: 23-53-26729

Date: 2023-10-28 10:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-327

Cone: 606:T1500F15U35



Max Depth: 6.825 m / 22.39 ft Depth Inc: 0.025 m / 0.082 ftFile: 23-53-26729_CPB-327.COR Unit Wt: SBTQtn (PKR2009) Avg Int: Every Point

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782553m E: 406579m

0

5

10

15

20

25

30

Depth (feet)

CONETEC CME Associates

400

Job No: 23-53-26729 Date: 2023-10-28 09:35

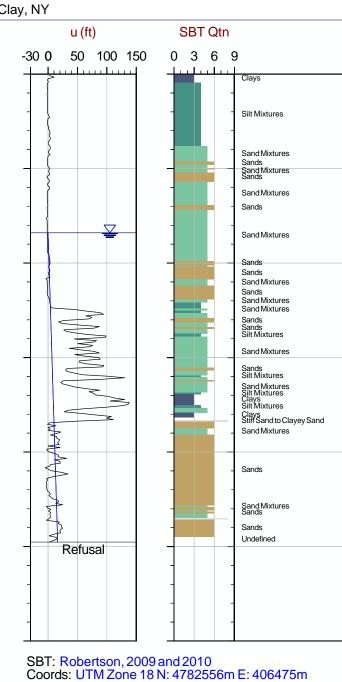
fs (tsf)

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Sounding: CPT23-B-329 Cone: 606:T1500F15U35



Max Depth: 7.550 m / 24.77 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

Refusal

File: 23-53-26729_CPB-329.COR Unit Wt: SBTQtn (PKR2009)

Refusal

Refusal

200

CONETEC

0

5-

10

15

20

25

30

Depth (feet)

CME Associates

400

Job No: 23-53-26729 Date: 2023-10-28 08:46

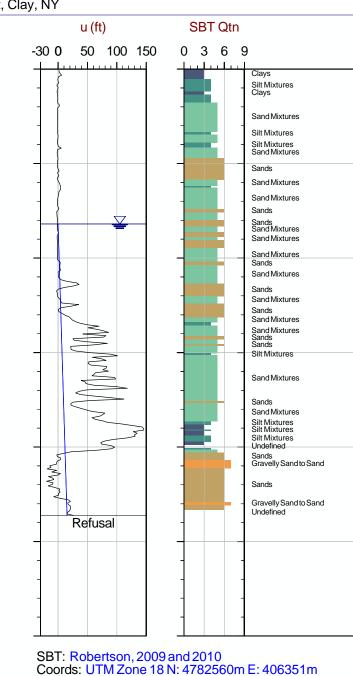
fs (tsf)

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)

Sounding: CPT23-B-330 Cone: 606:T1500F15U35



Max Depth: 7.200 m / 23.62 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

Refusal

File: 23-53-26729_CPB-330.COR Unit Wt: SBTQtn (PKR2009)

Refusal

MAN

Refusal

Avg Int: Every Point

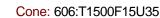


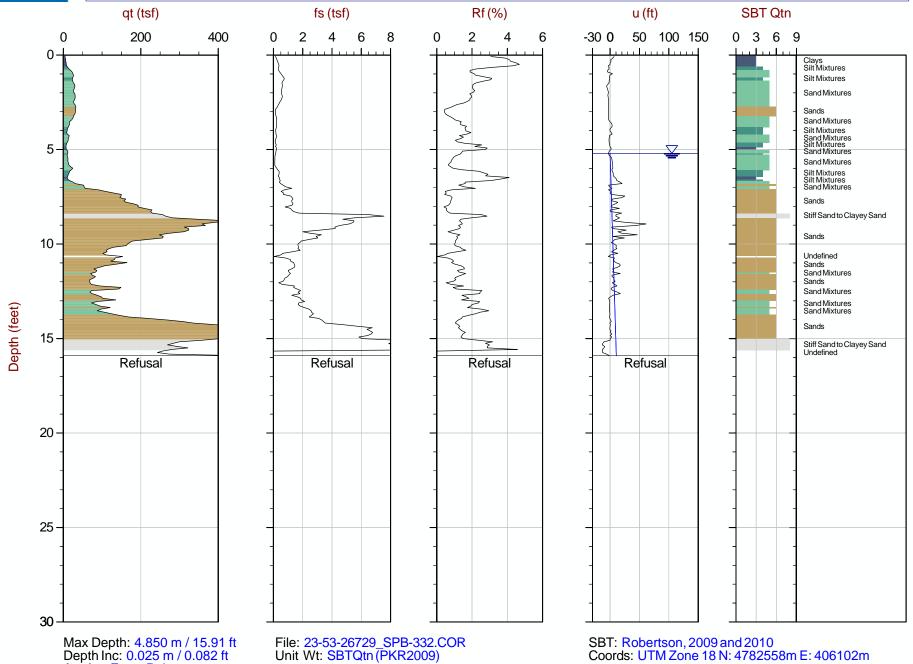
CME Associates

Job No: 23-53-26729 Date: 2023-10-28 07:24

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332





The reported coordinates were acquired from consumer-grade GPS equipment and are only approximate locations. The coordinates should not be used for design purposes.

Avg Int: Every Point

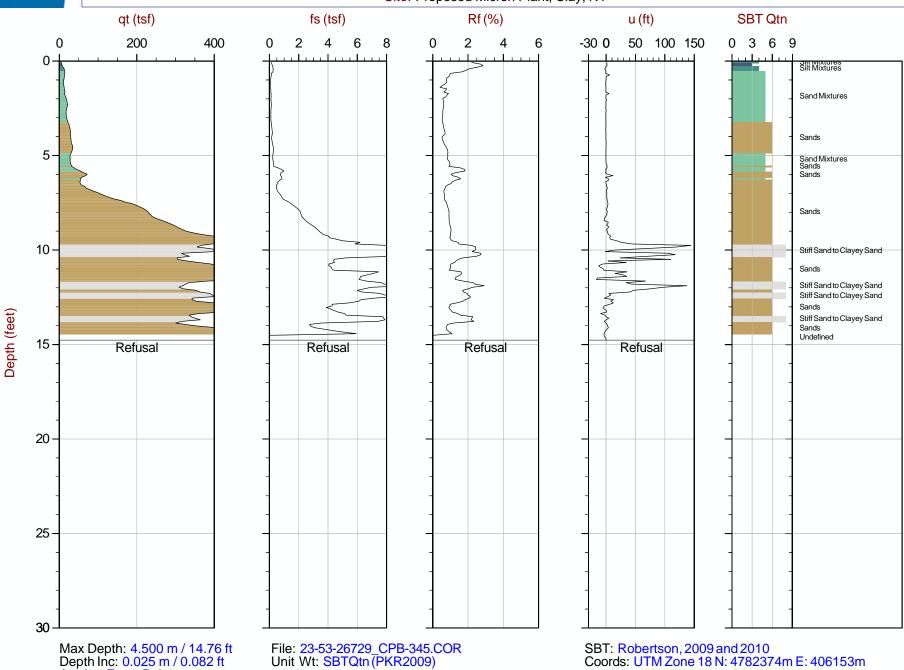


# CME Associates

Job No: 23-53-26729 Date: 2023-10-27 16:22

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-345 Cone: 606:T1500F15U35





0

5

10

15

20

25

30

Depth (feet)

# CME Associates

400

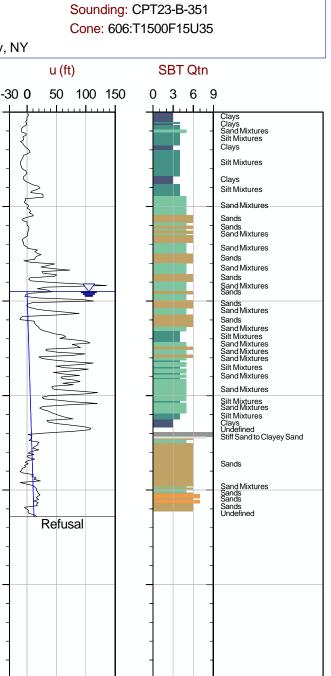
Job No: 23-53-26729 Date: 2023-10-27 15:44

fs (tsf)

6

Site: Proposed Micron Plant, Clay, NY

Rf (%)



Max Depth: 6.525 m / 21.41 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point

Refusal

File: 23-53-26729_CPB-351.COR Unit Wt: SBTQtn (PKR2009)

Refusal

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782409m E: 406505m

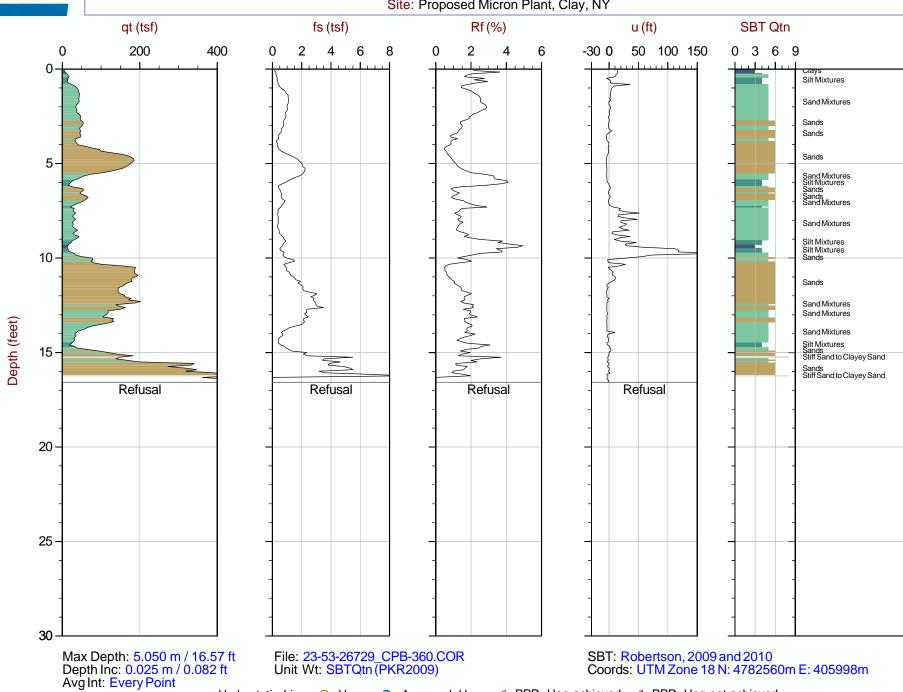
Refusal



Job No: 23-53-26729 Date: 2023-10-28 15:41

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-360 Cone: 606:T1500F15U35



Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

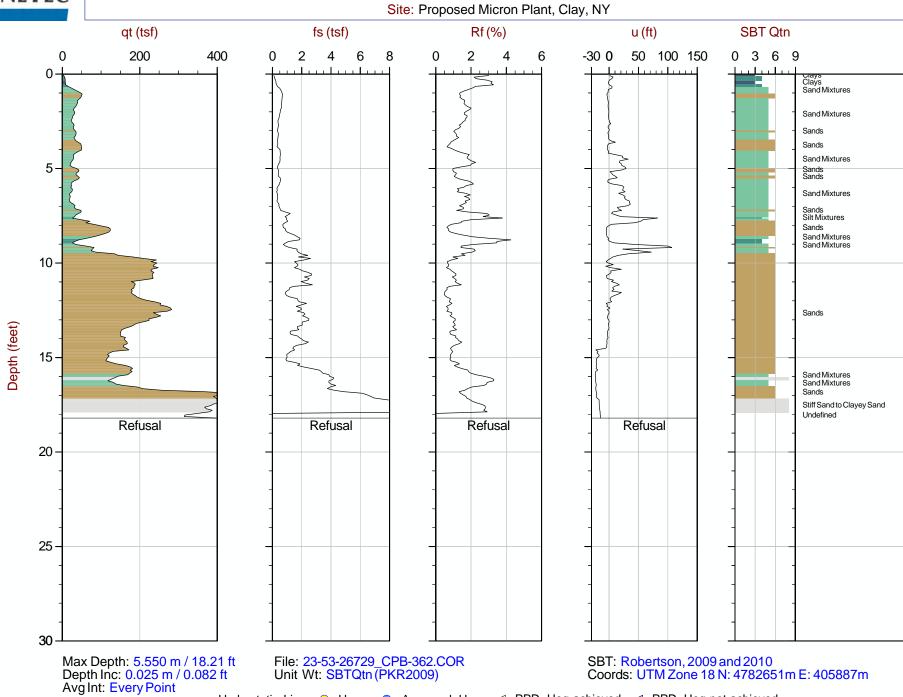
PPD, Ueq not achieved 

PPD, Ue



Job No: 23-53-26729 Date: 2023-10-28 15:11

Sounding: CPT23-B-362 Cone: 606:T1500F15U35



Hydrostatic Line 

Ueq 

Assumed Ueq 

PPD, Ueq achieved 

PPD, Ueq not achieved 

PPD, Ue

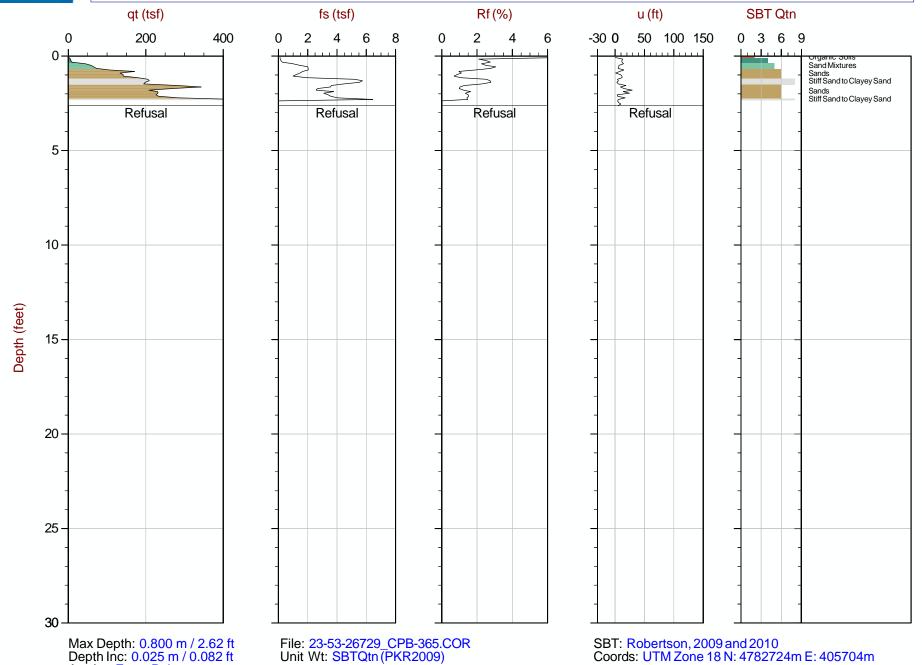
Avg Int: Every Point



# CME Associates

Job No: 23-53-26729 Date: 2023-10-28 14:34 Sounding: CPT23-B-365 Cone: 606:T1500F15U35

Site: Proposed Micron Plant, Clay, NY

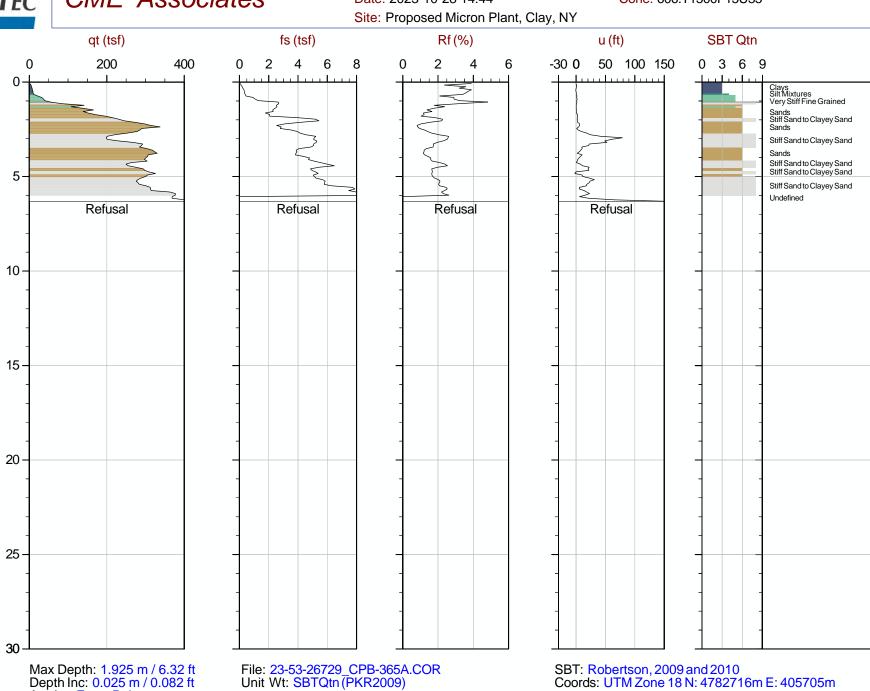




Depth (feet)

# CME Associates

Job No: 23-53-26729 Date: 2023-10-28 14:44 Sounding: CPT23-B-365A Cone: 606:T1500F15U35



Avg Int: Every Point

——— Hydrostatic Line ● Ueq ● Assumed Ueq < PPD, Ueq achieved < PPD, Ueq not achieved

200



0

5

10

15

20

25

30

Depth (feet)

CME Associates

400

Job No: 23-53-26729

fs (tsf)

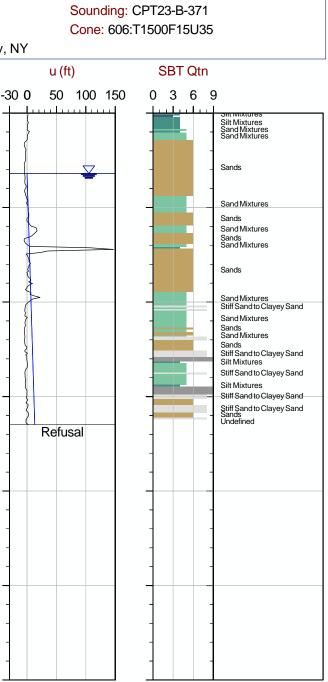
Refusal

6

Date: 2023-10-28 12:53 Site: Proposed Micron Plant, Clay, NY

Rf (%)

Refusal



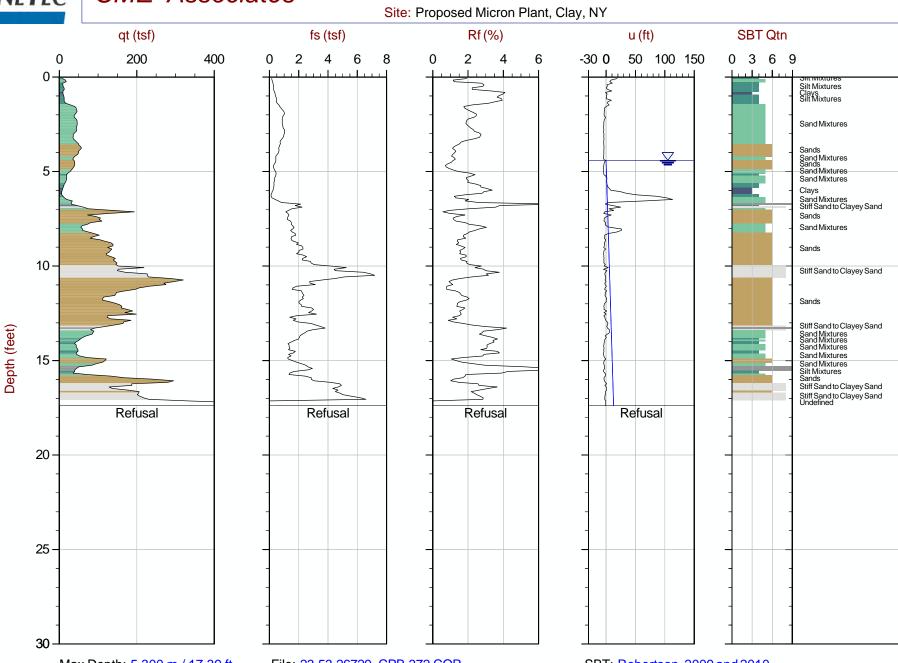


Refusal

File: 23-53-26729_CPB-371.COR Unit Wt: SBTQtn (PKR2009) SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782809m E: 405685m



Job No: 23-53-26729 Date: 2023-10-28 13:25 Sounding: CPT23-B-372 Cone: 606:T1500F15U35



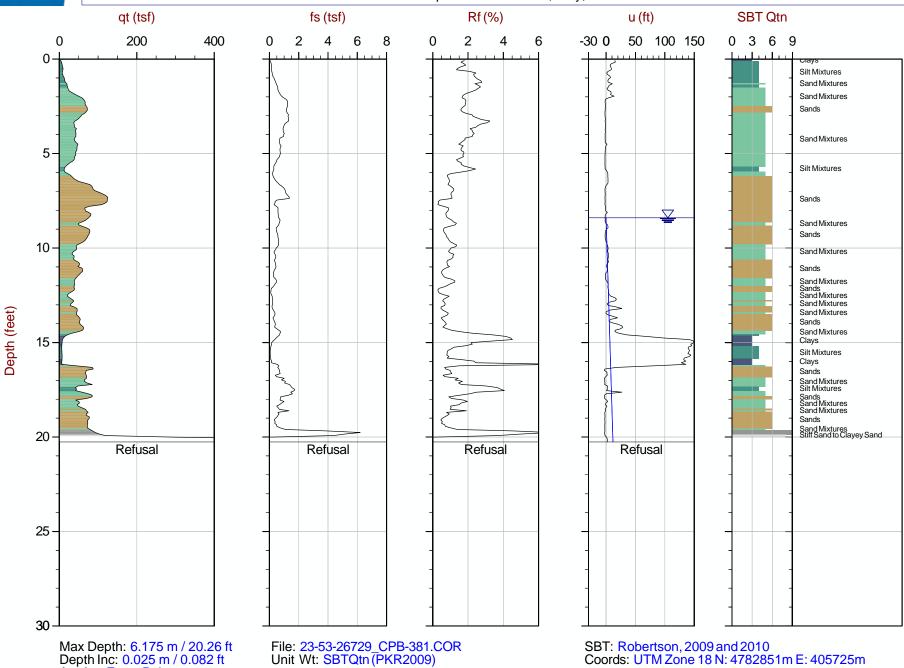
Max Depth: 5.300 m / 17.39 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point File: 23-53-26729_CPB-372.COR Unit Wt: SBTQtn (PKR2009)

SBT: Robertson, 2009 and 2010 Coords: UTM Zone 18 N: 4782756m E: 405814m



Job No: 23-53-26729 Date: 2023-10-28 12:15 Sounding: CPT23-B-381 Cone: 606:T1500F15U35

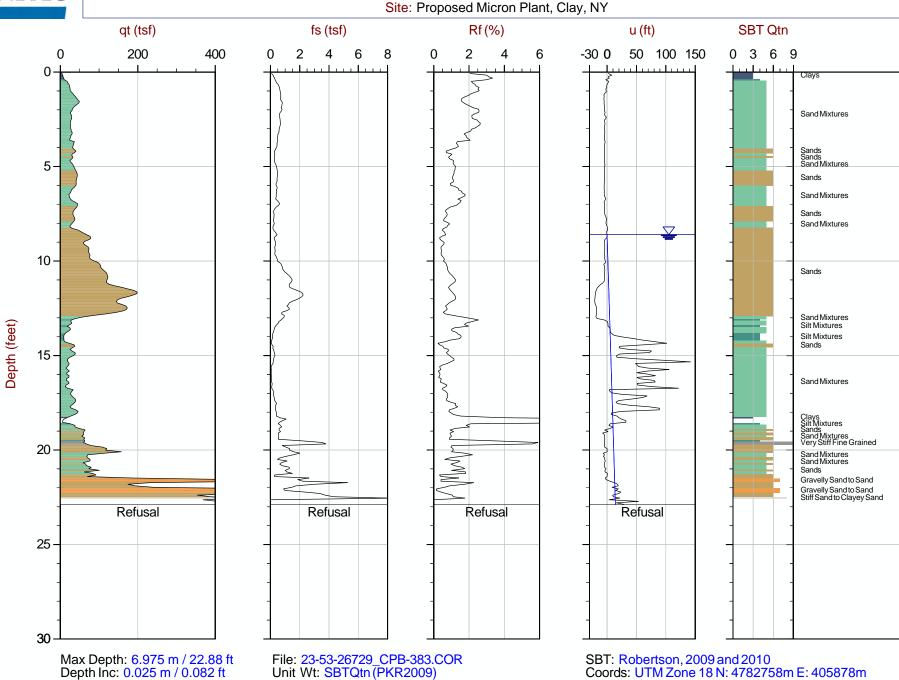
Site: Proposed Micron Plant, Clay, NY





Job No: 23-53-26729 Date: 2023-10-28 13:56

Sounding: CPT23-B-383 Cone: 606:T1500F15U35



Max Depth: 6.975 m / 22.88 ft Depth Inc: 0.025 m / 0.082 ft Avg Int: Every Point Hydrostatic Line 

Ueq 

Assumed Ueq 

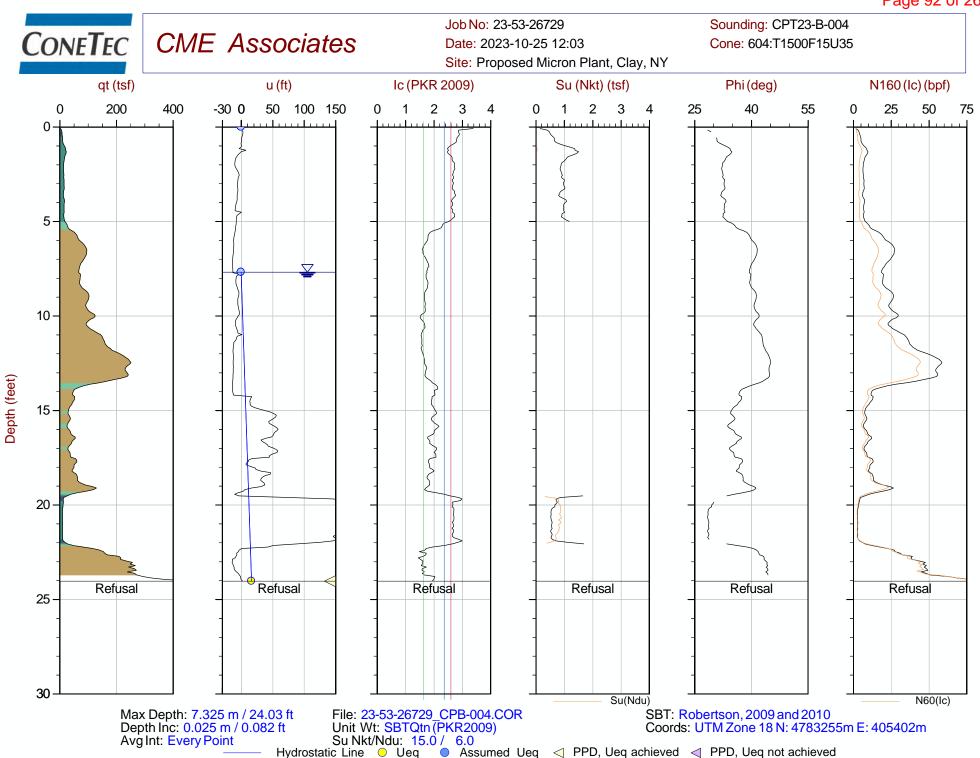
PPD, Ueq achieved 

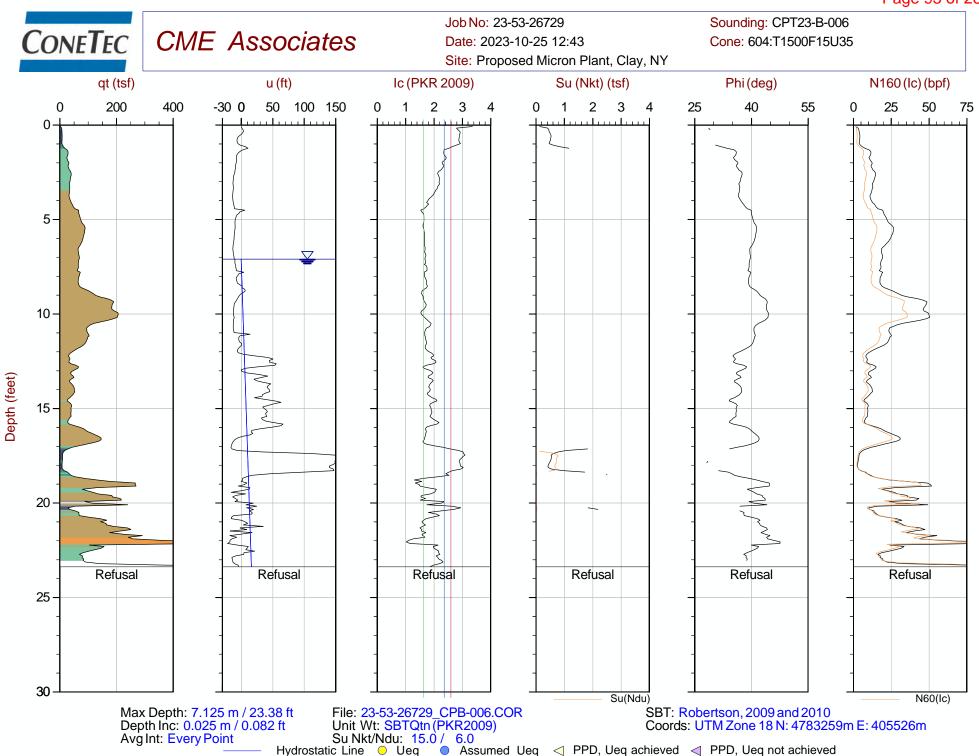
PPD, Ueq not achieved 

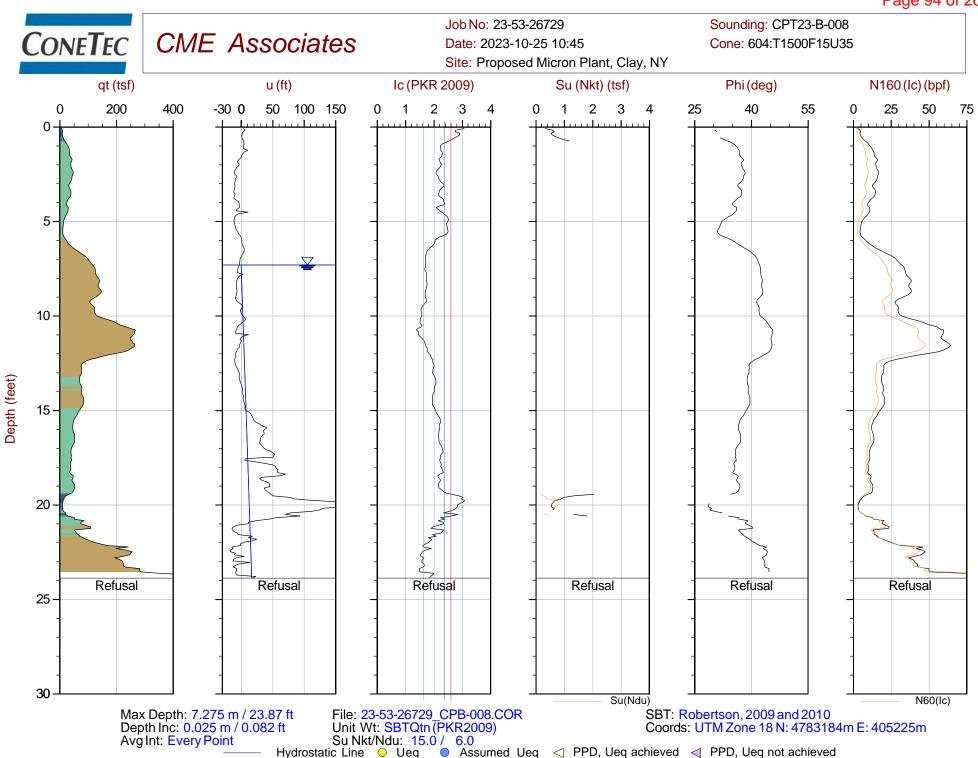
PPD, Ue

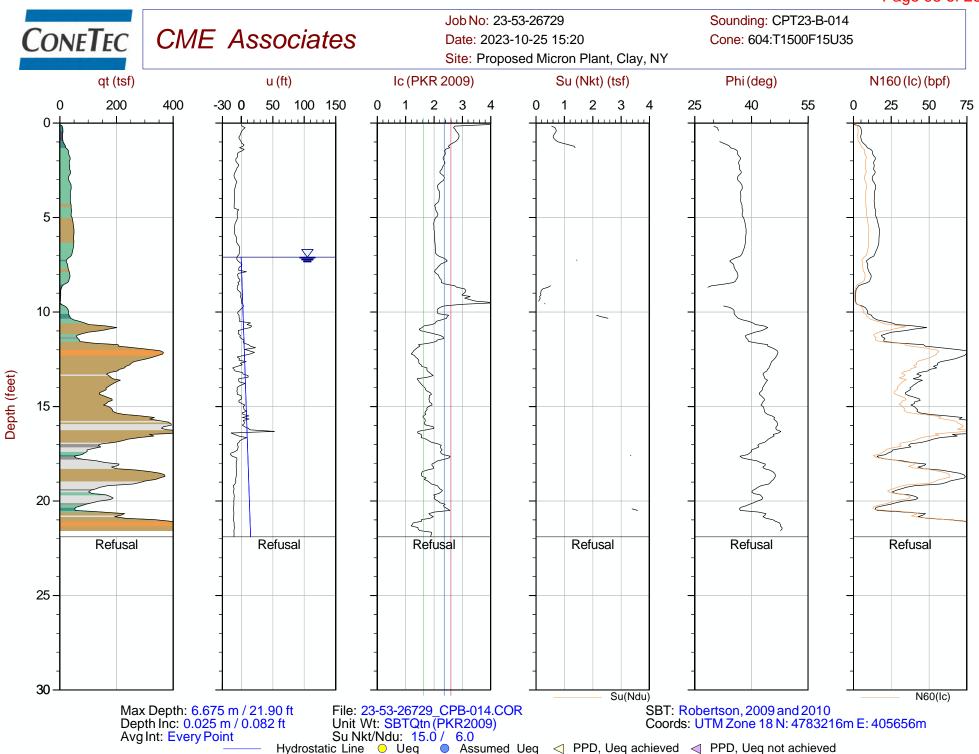
## **Advanced Cone Penetration Test Plots**

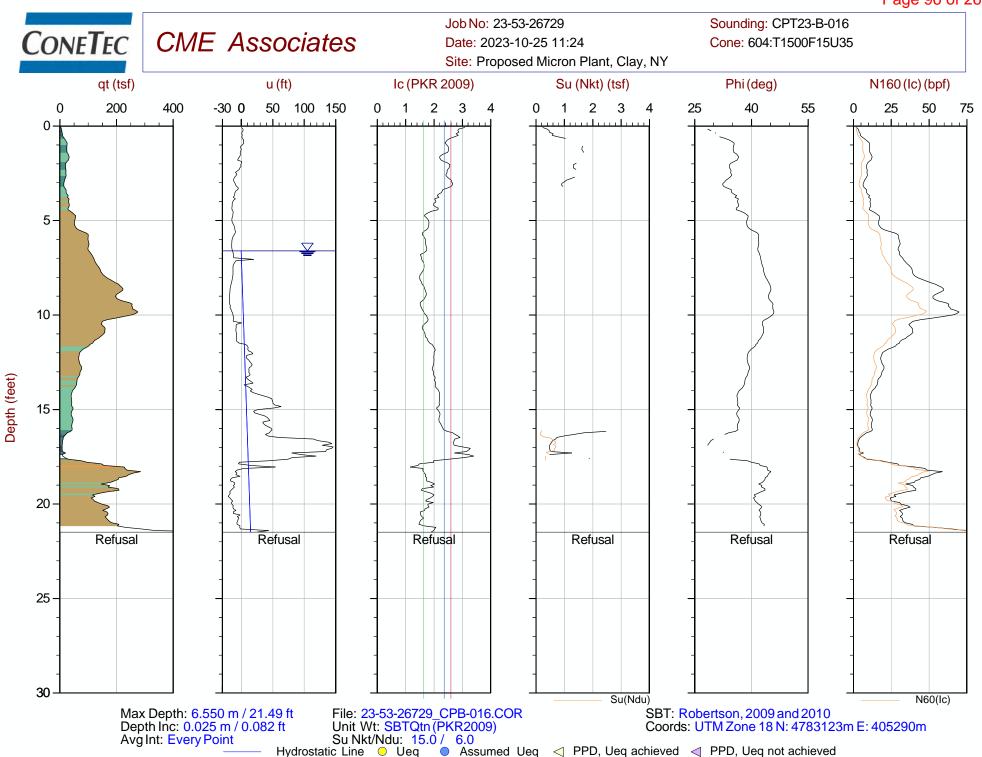


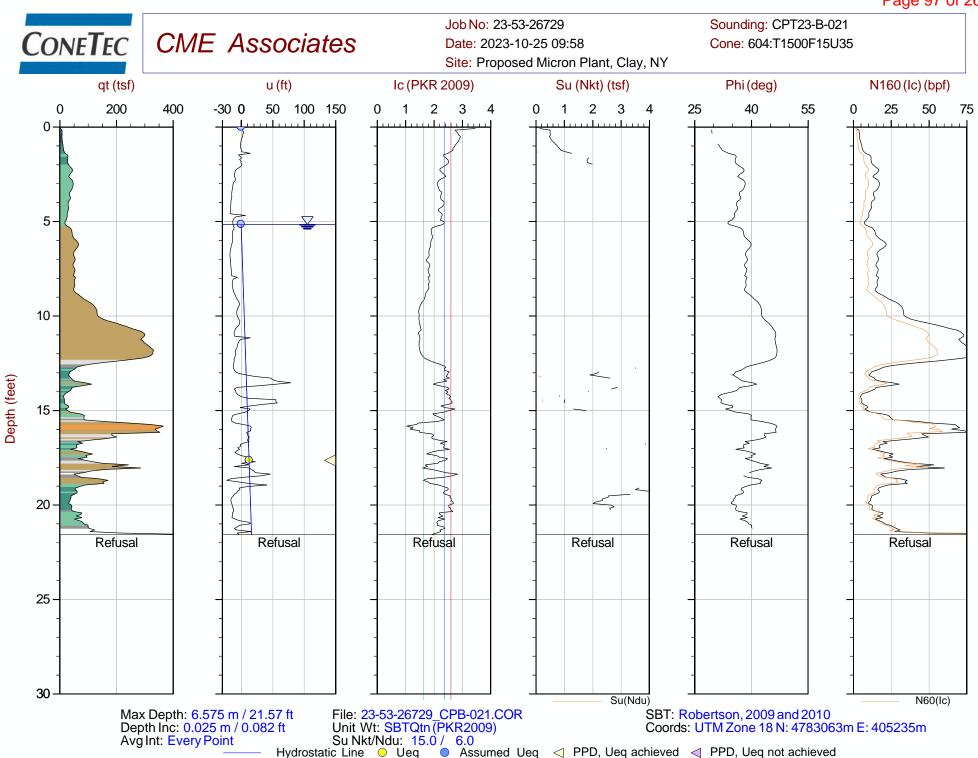


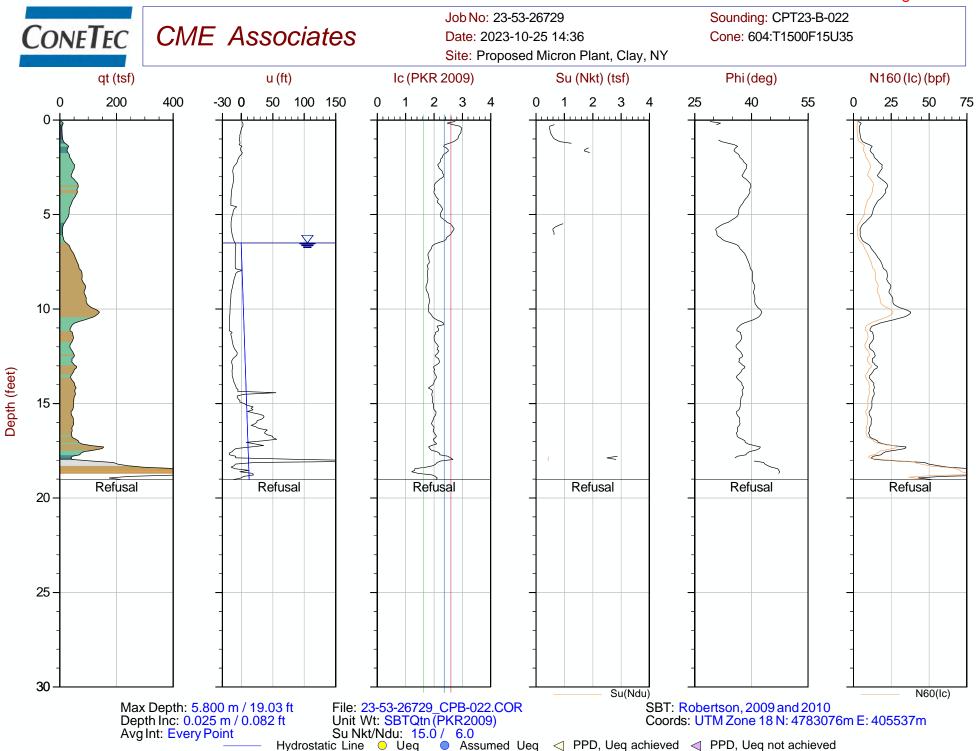


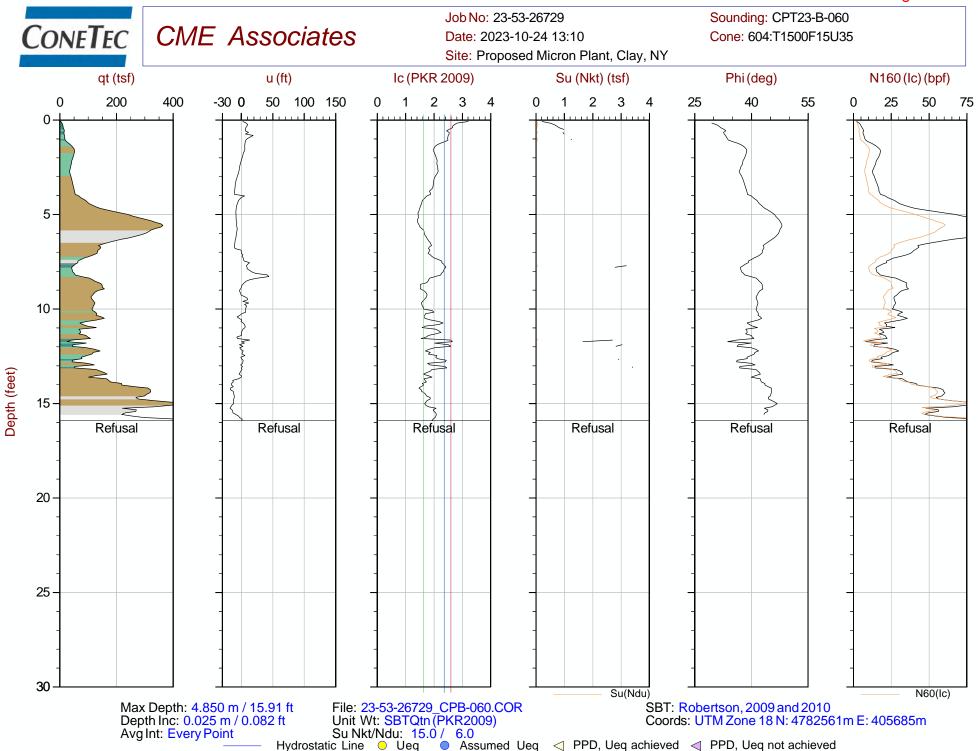


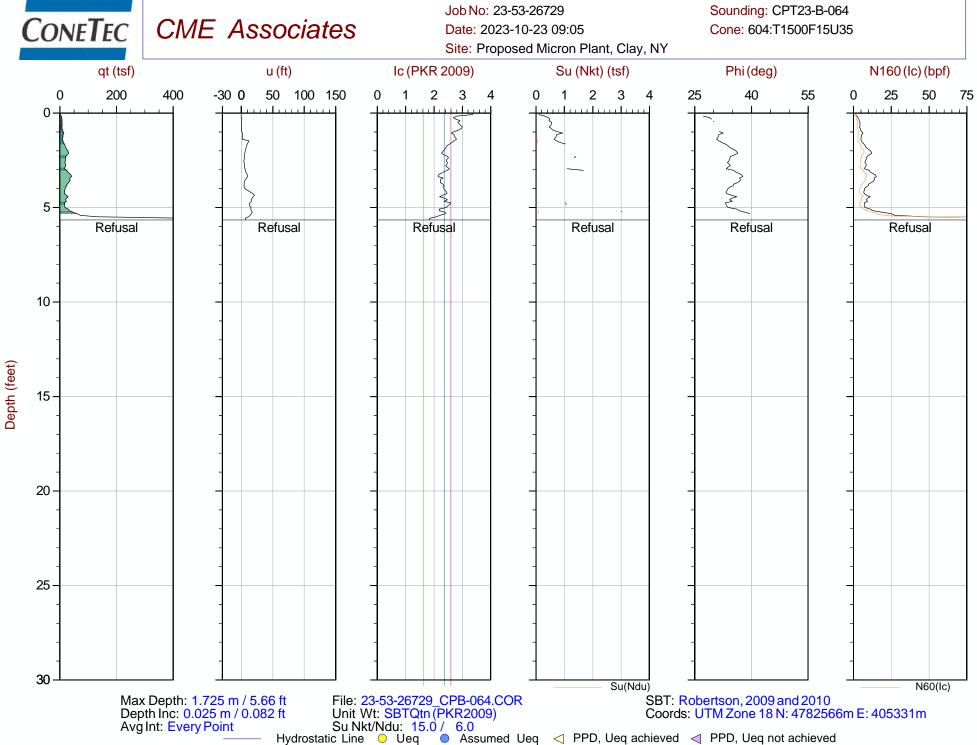


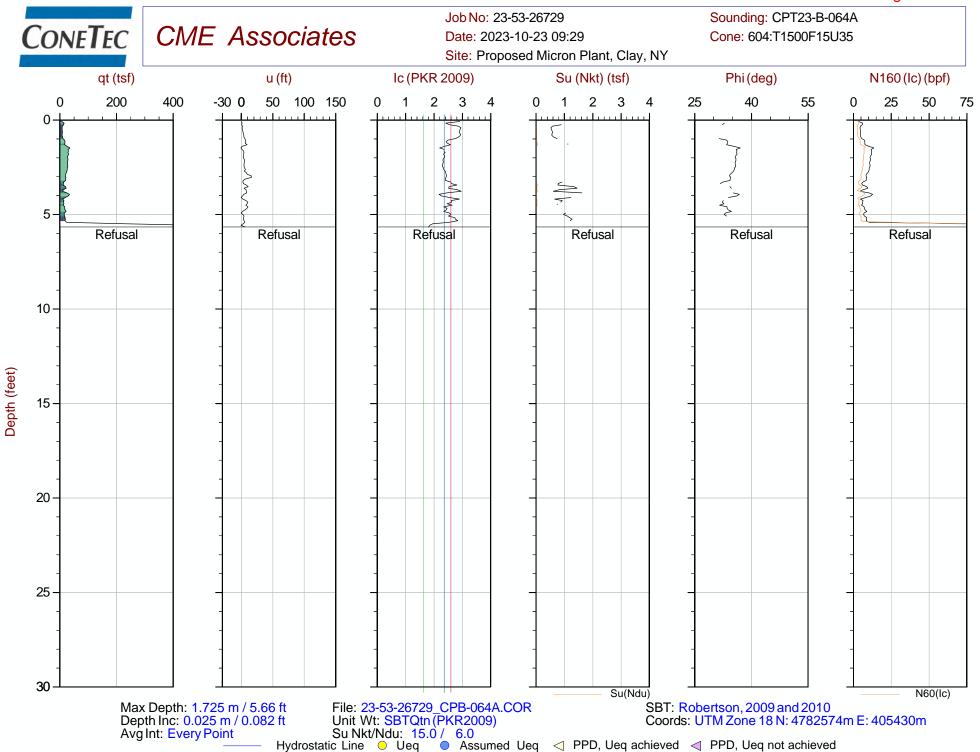


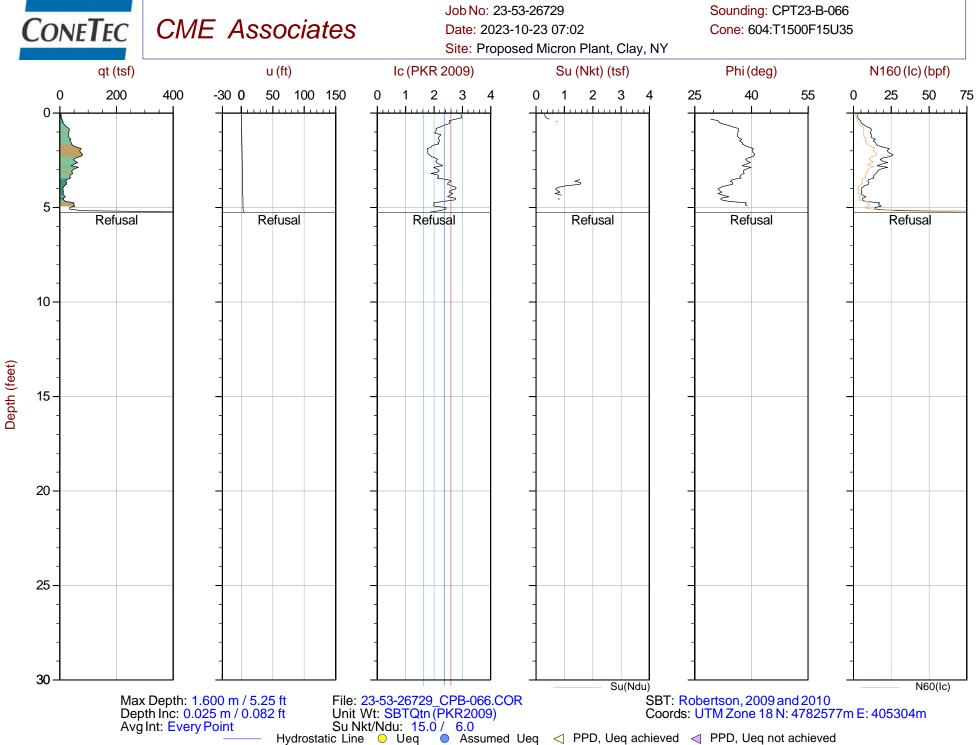


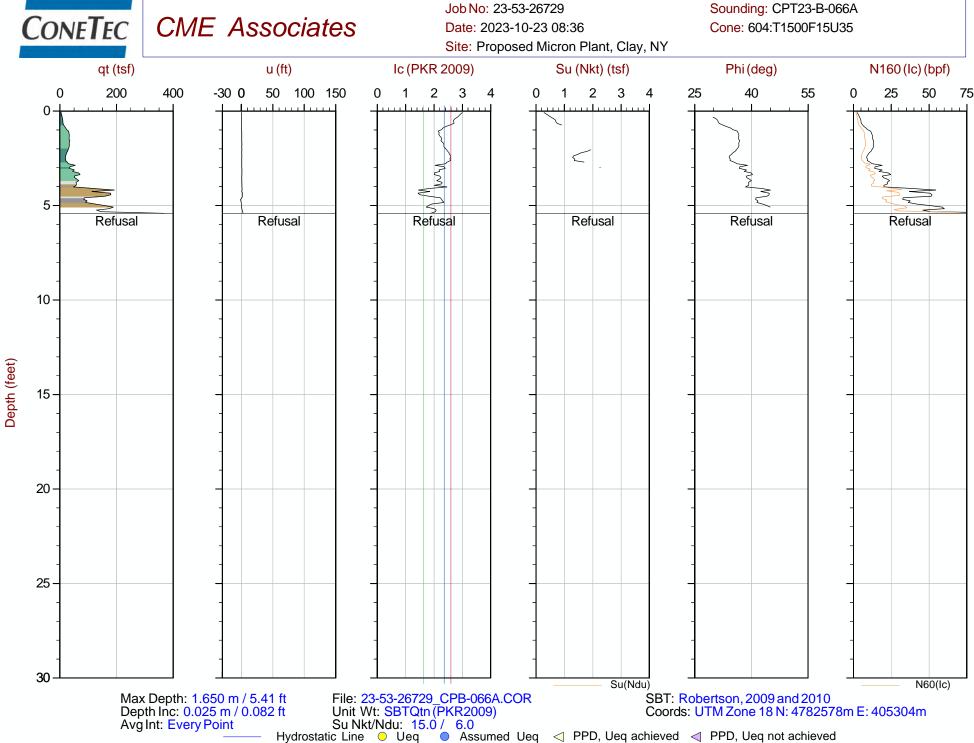


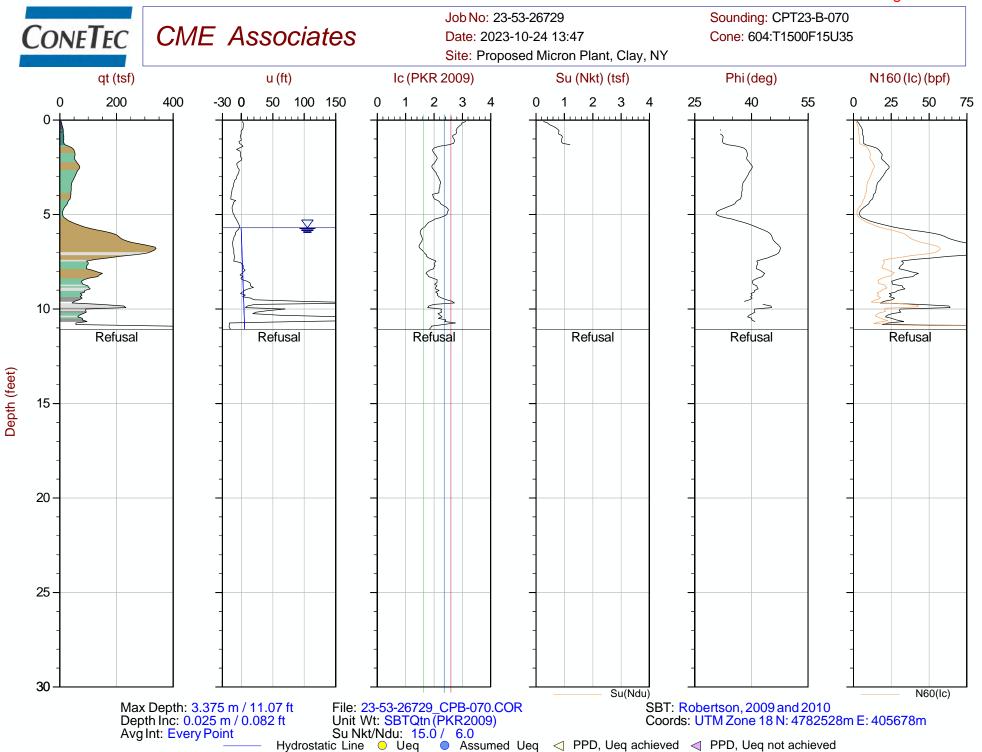


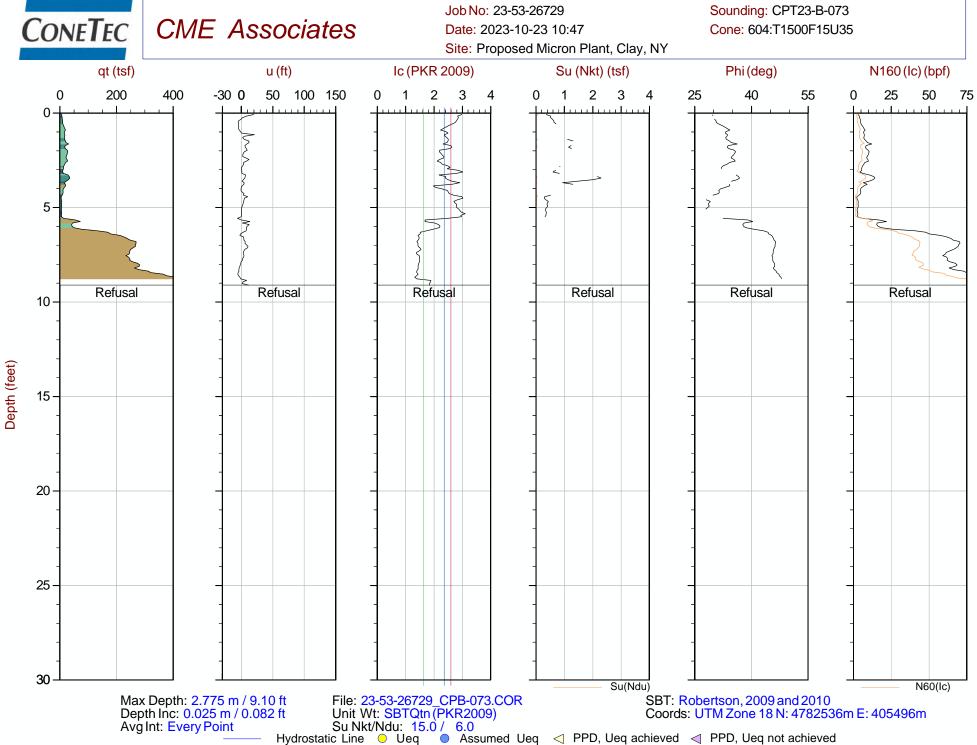


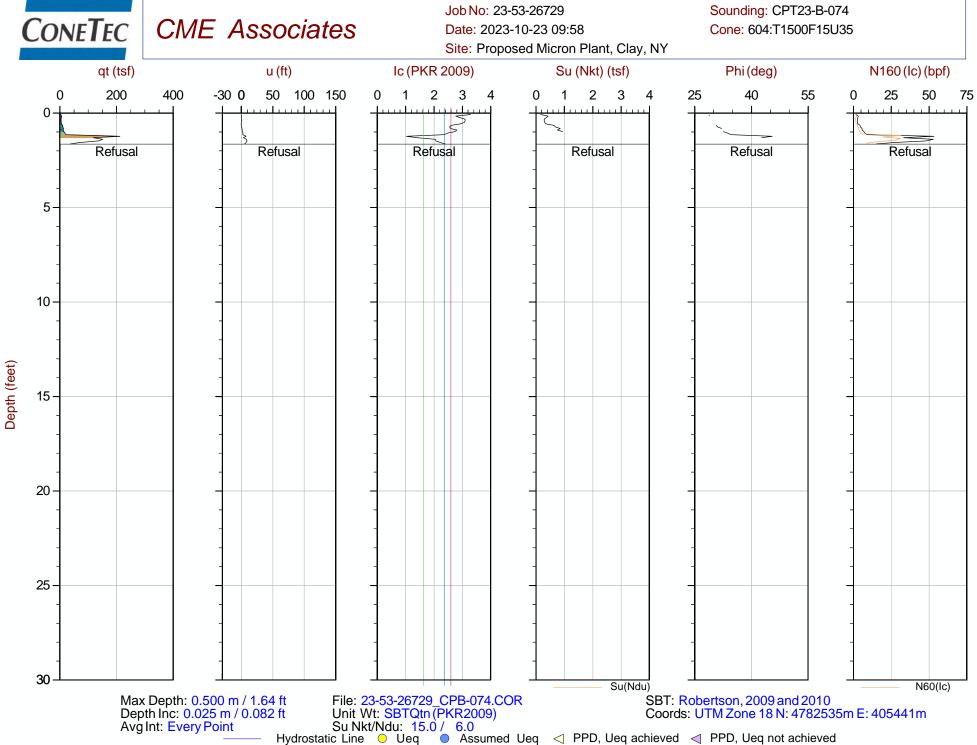


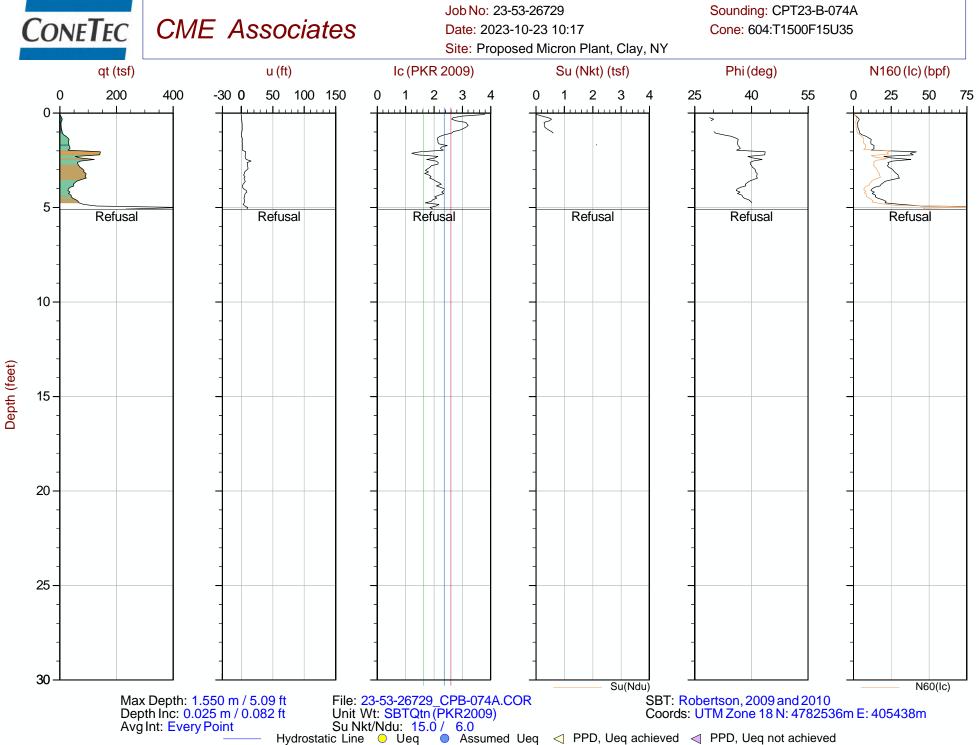


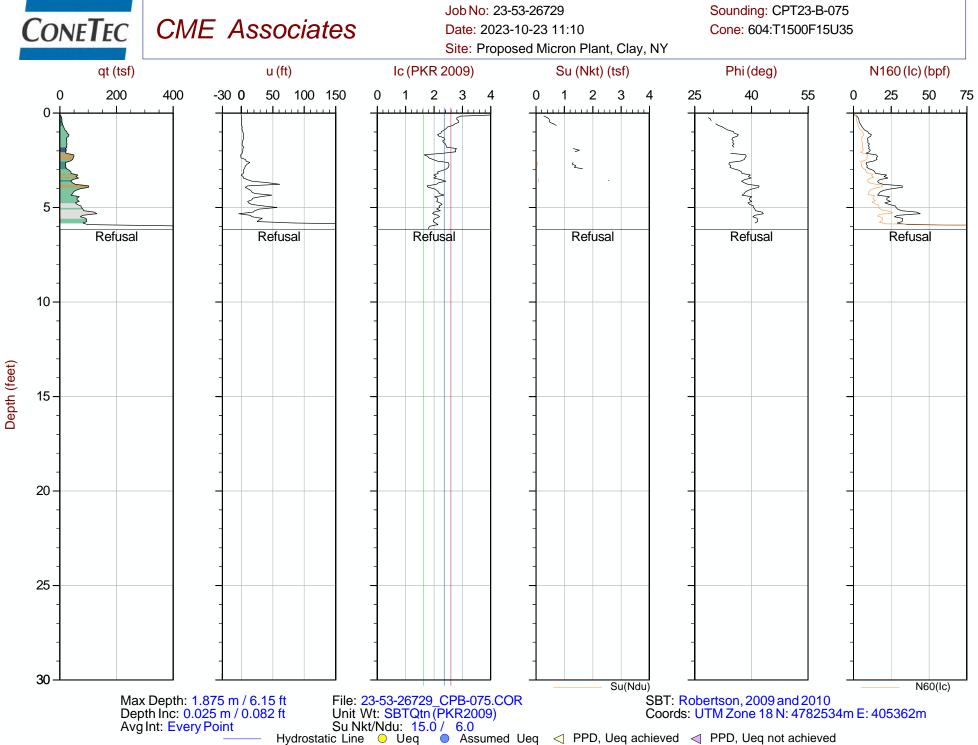


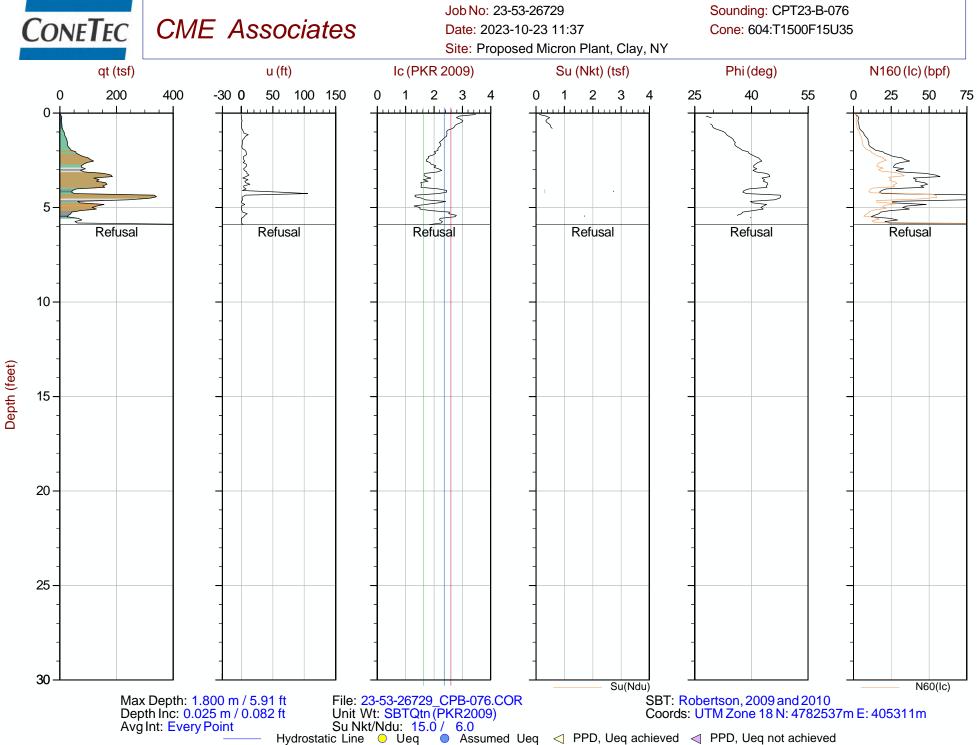


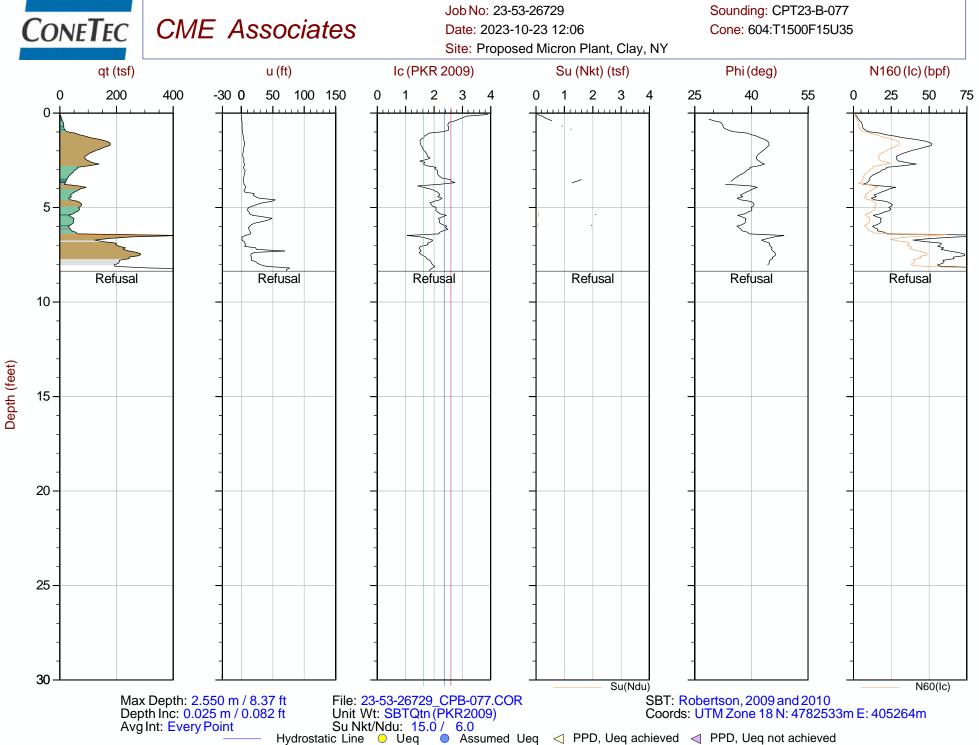


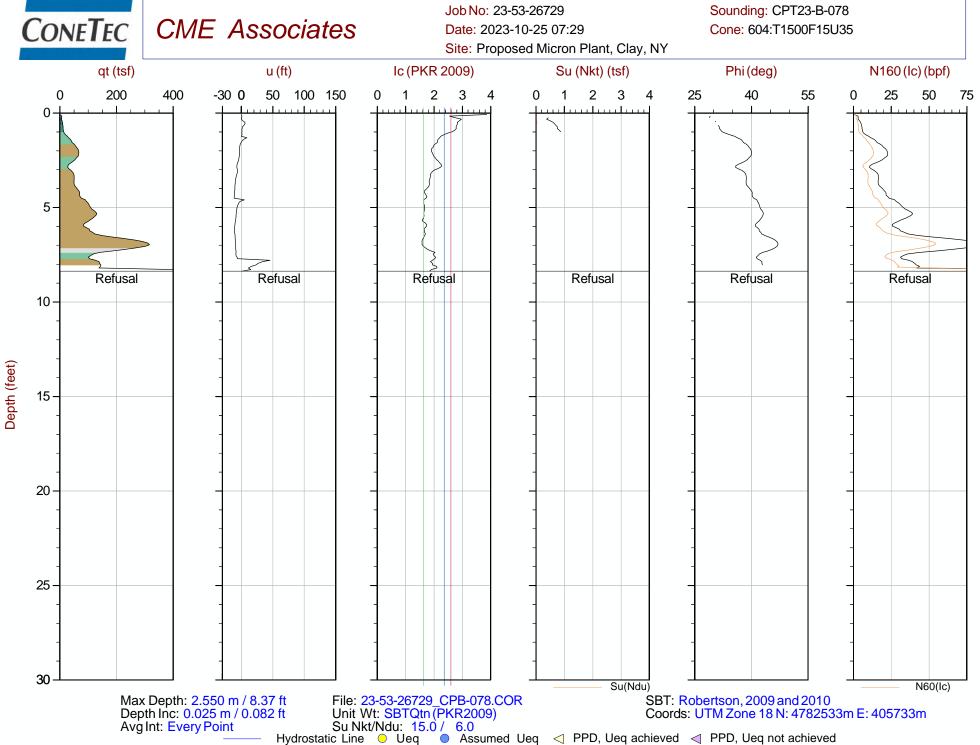


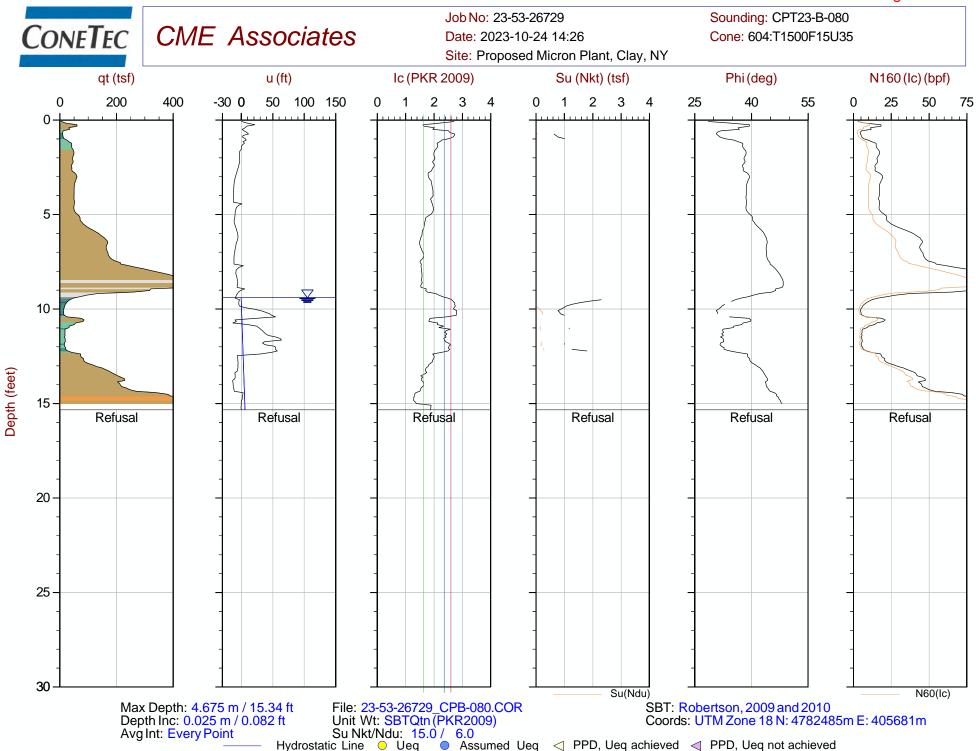


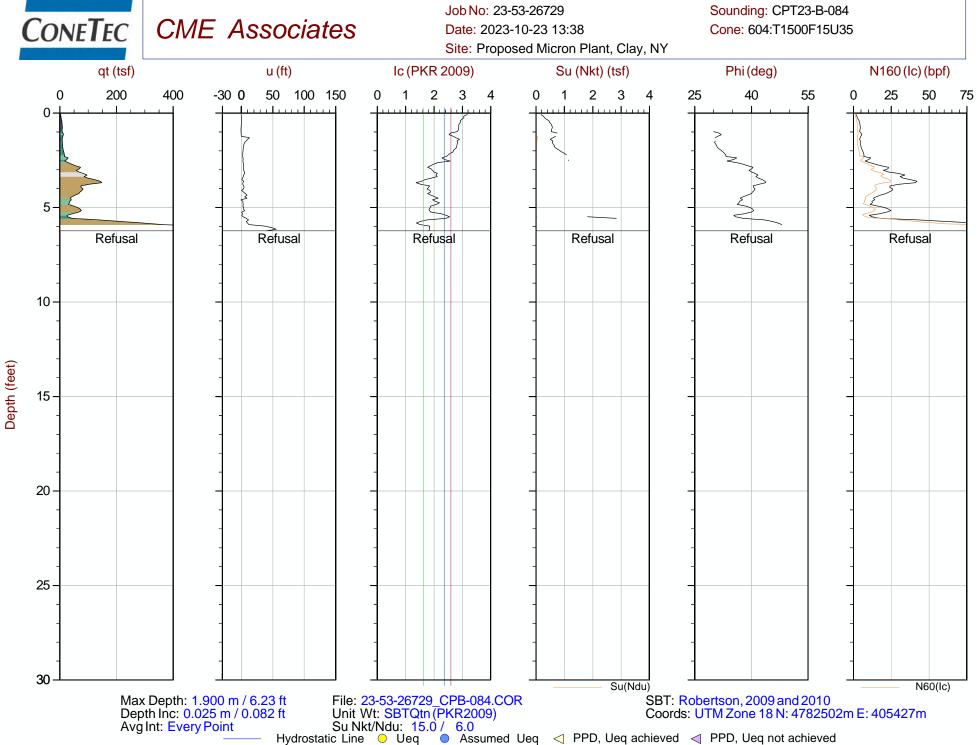


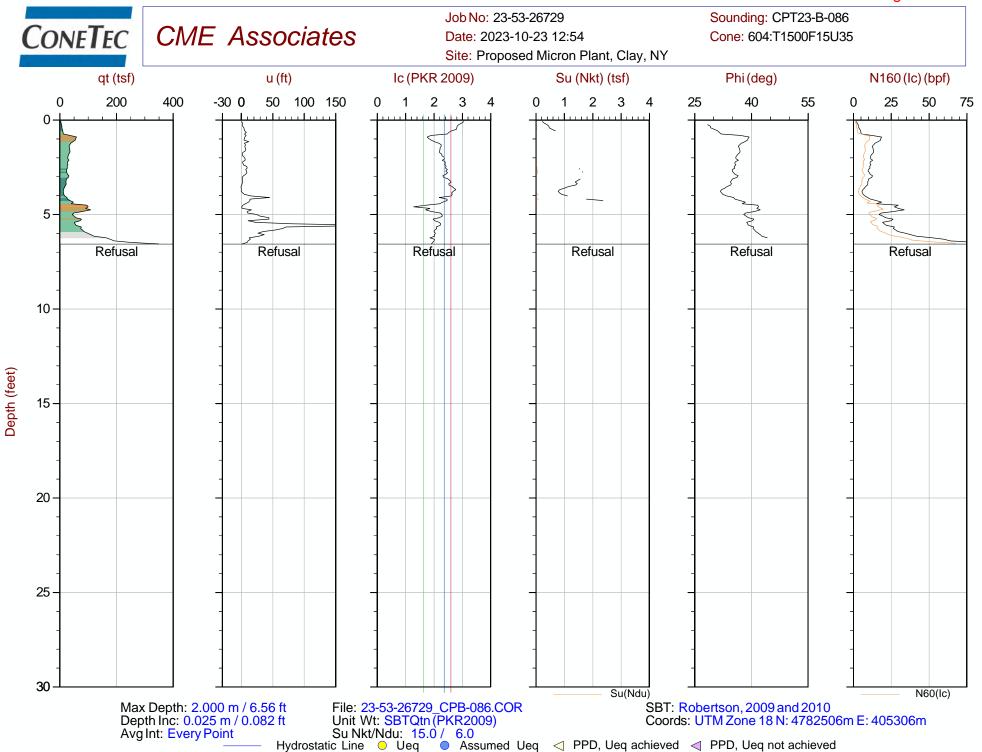


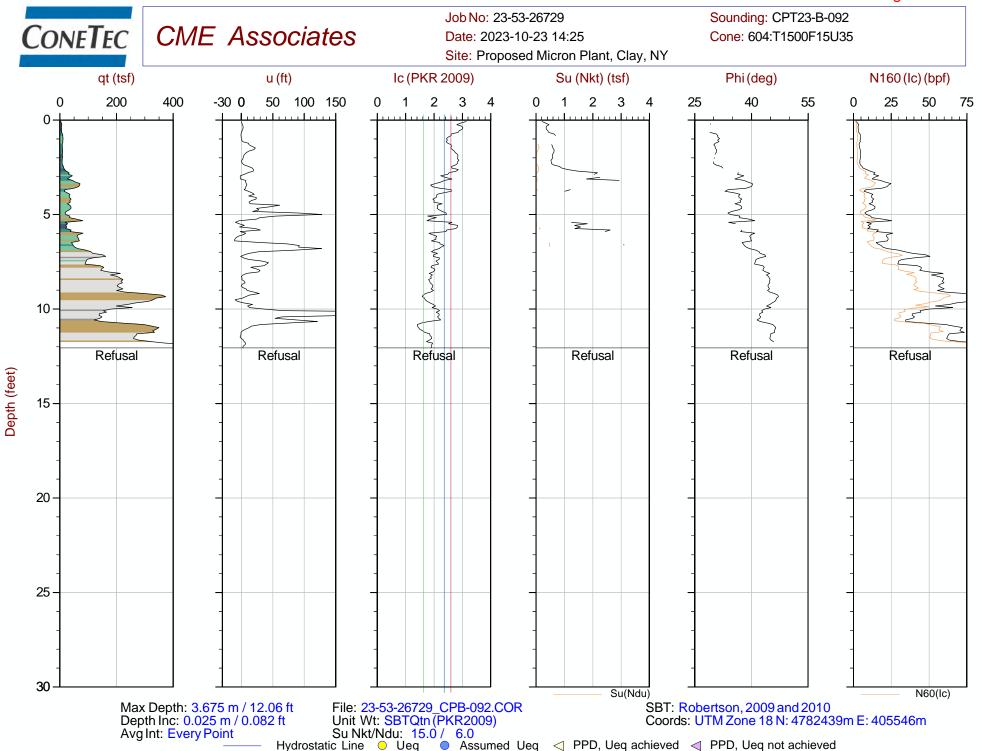


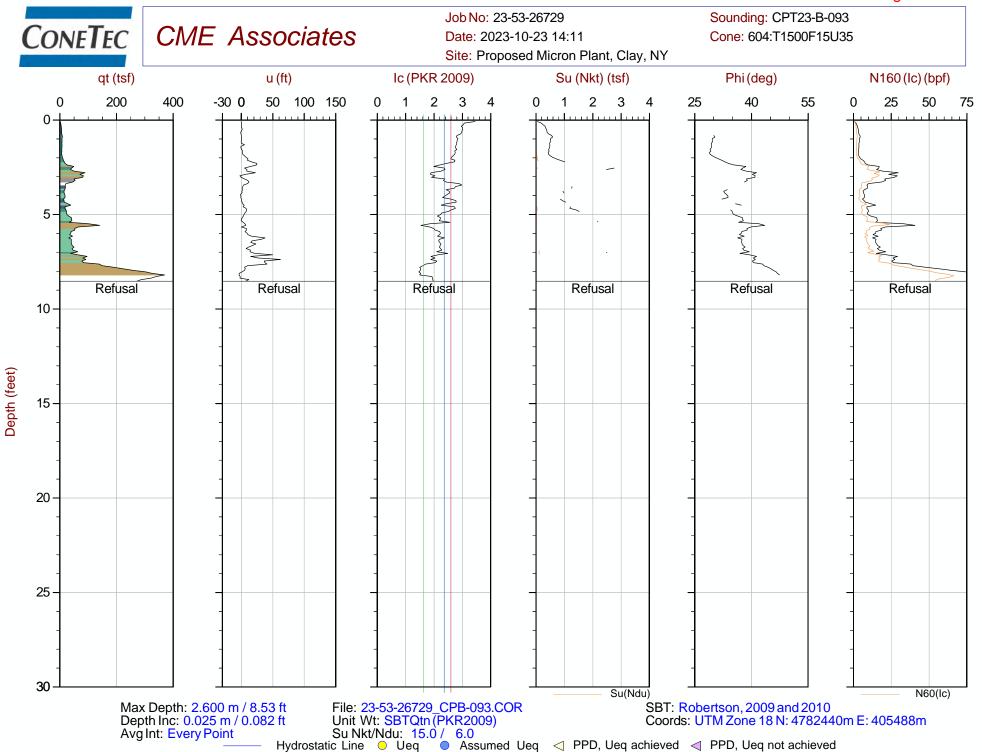


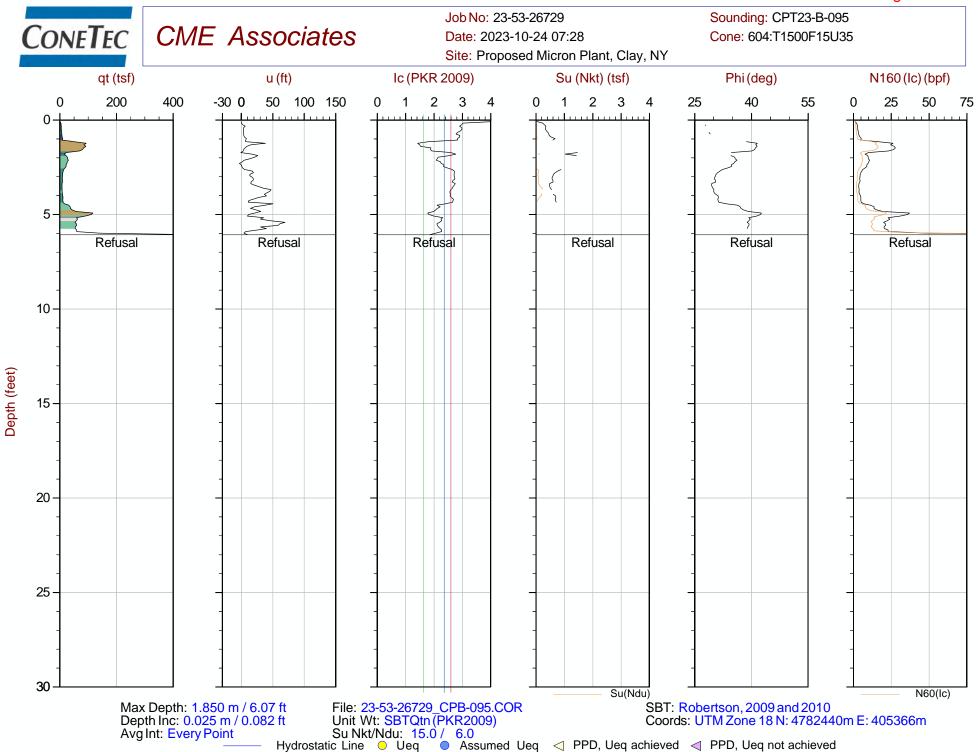


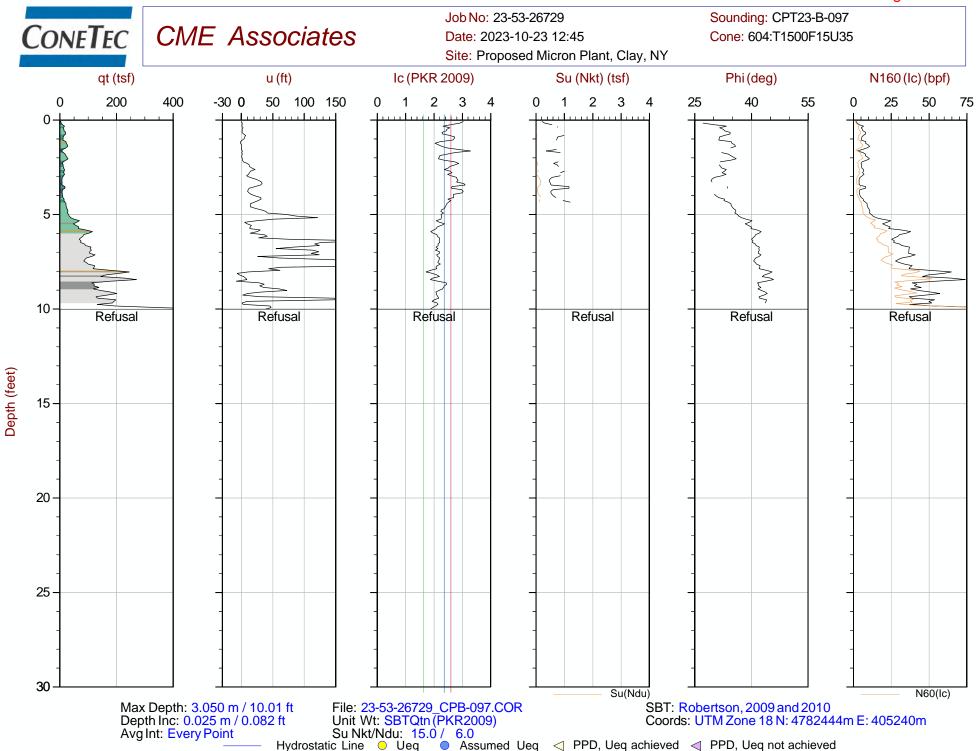


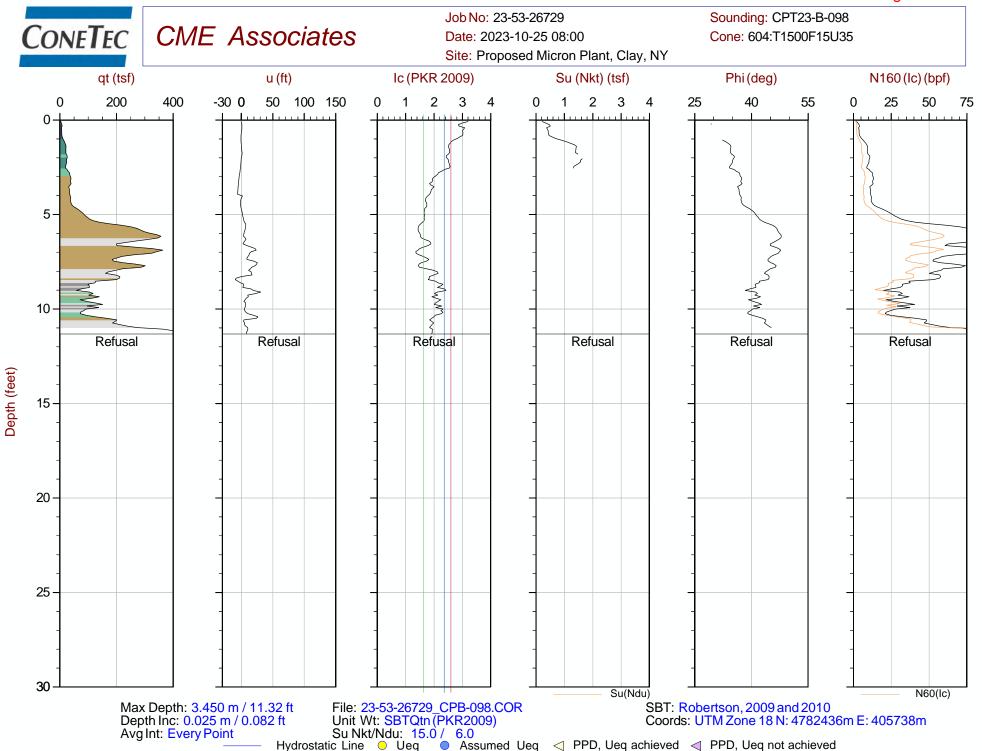


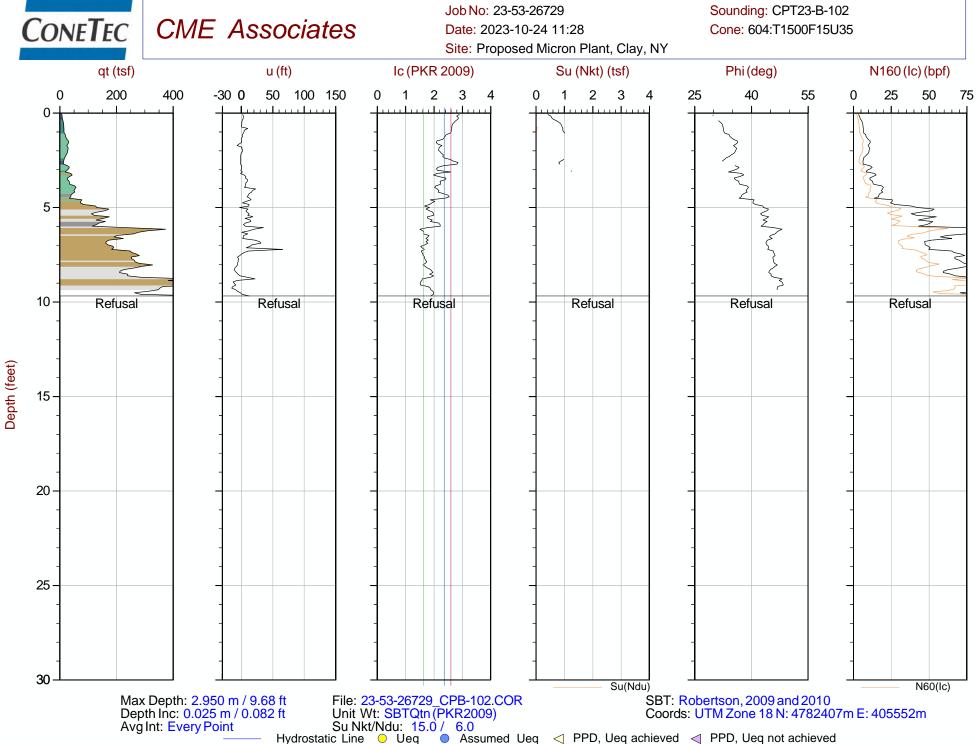


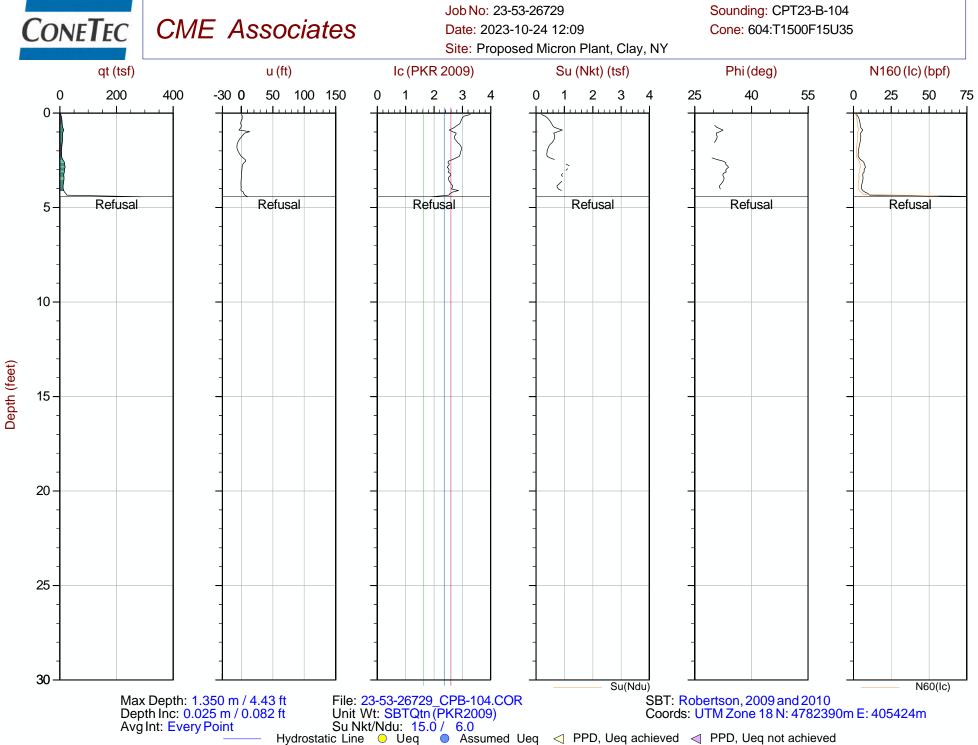


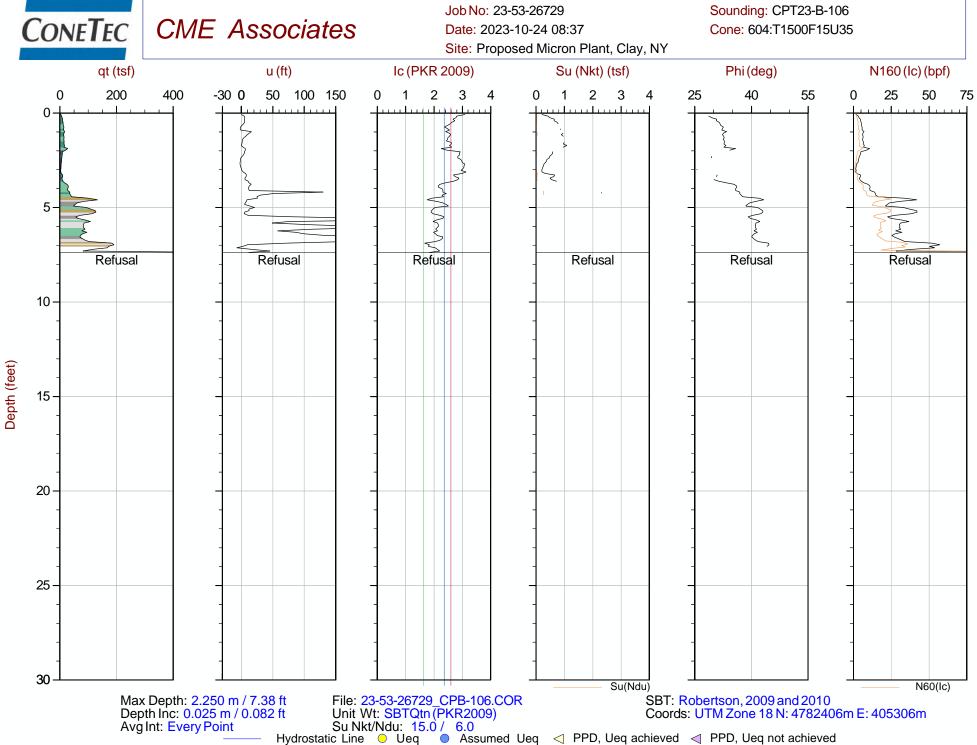


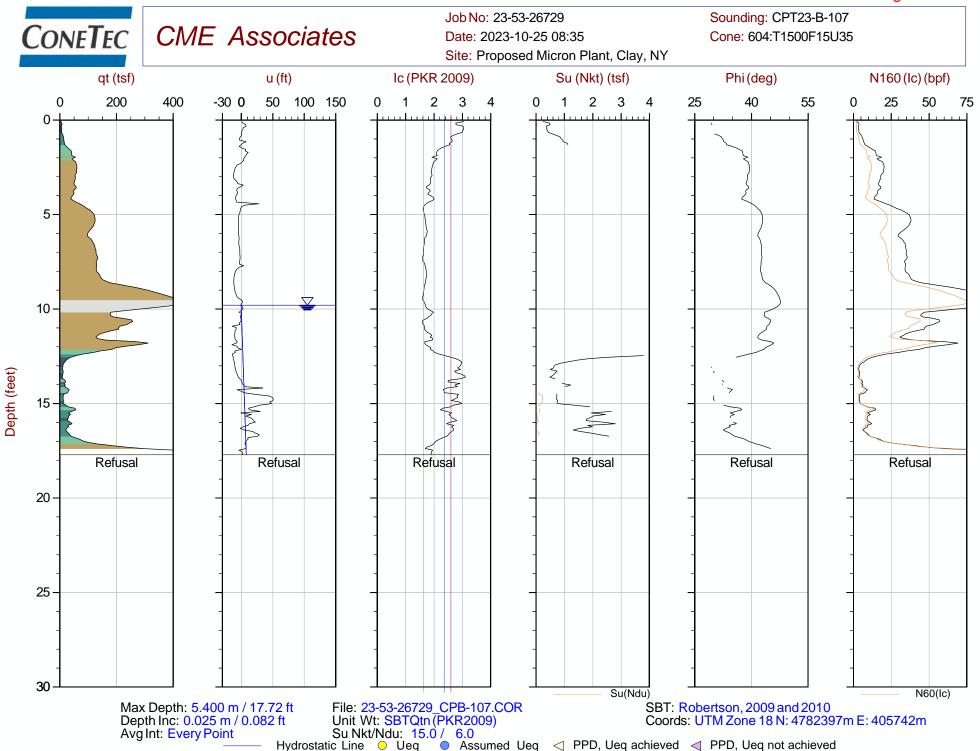


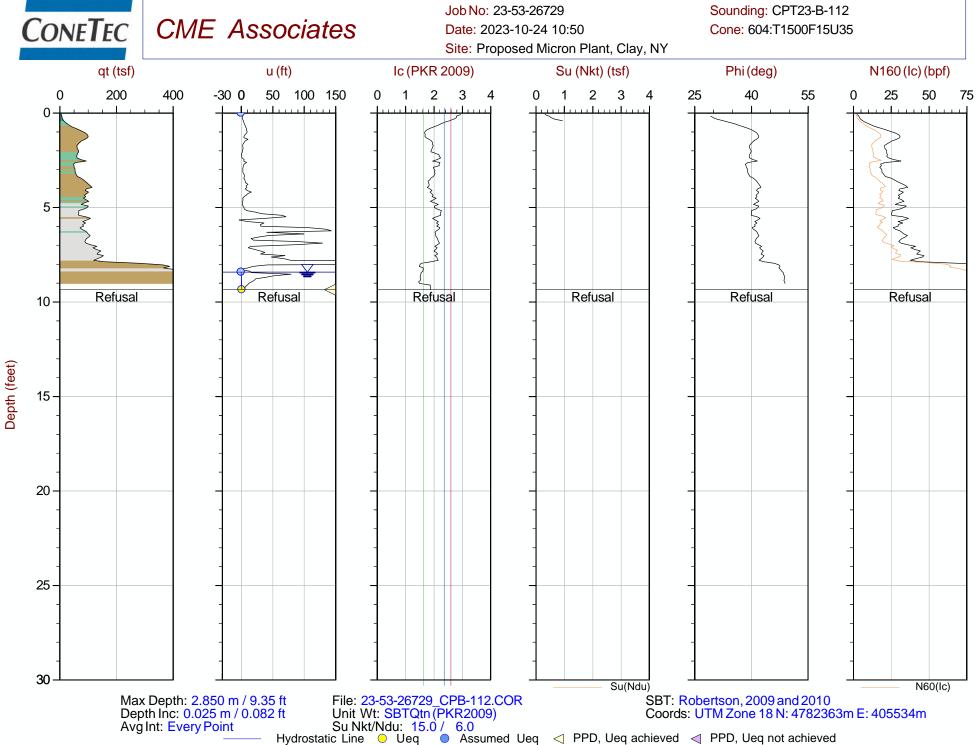


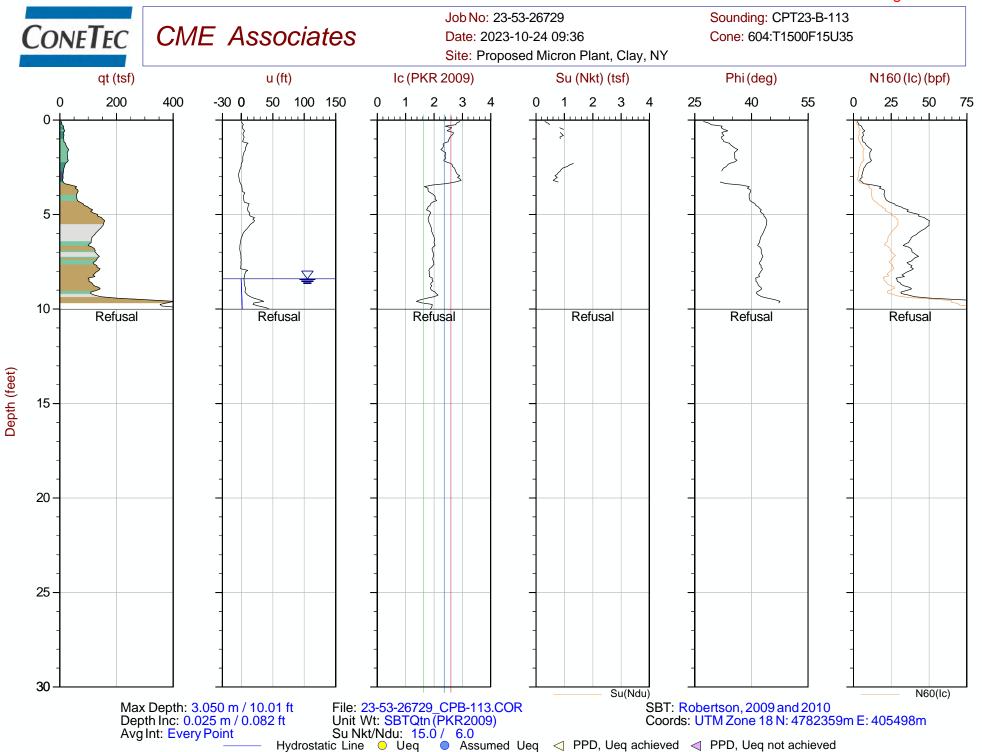


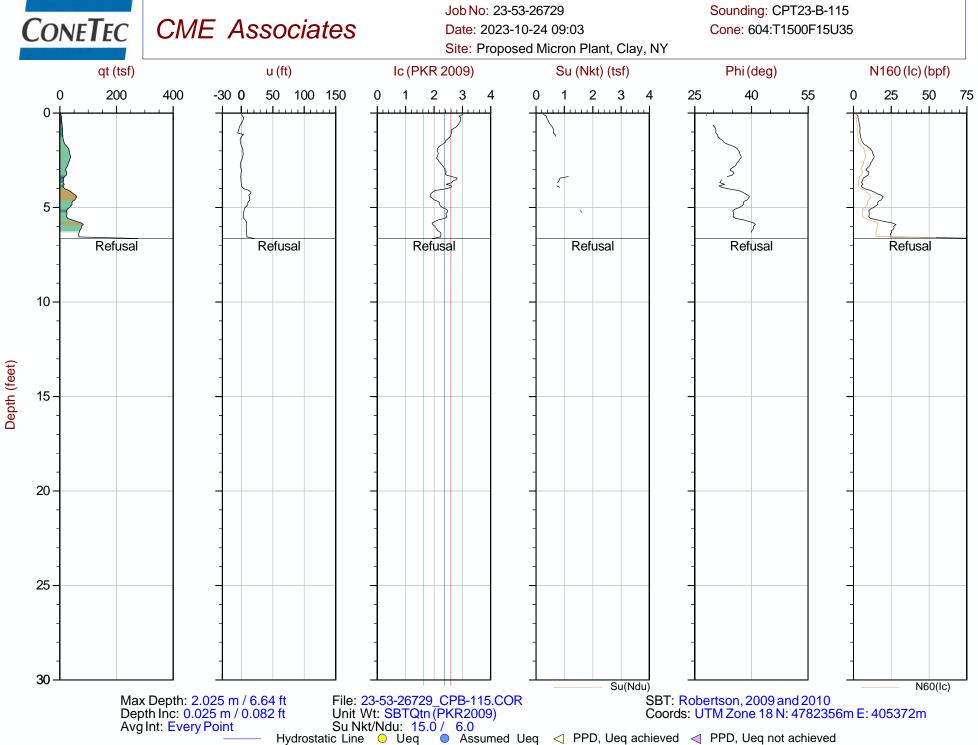


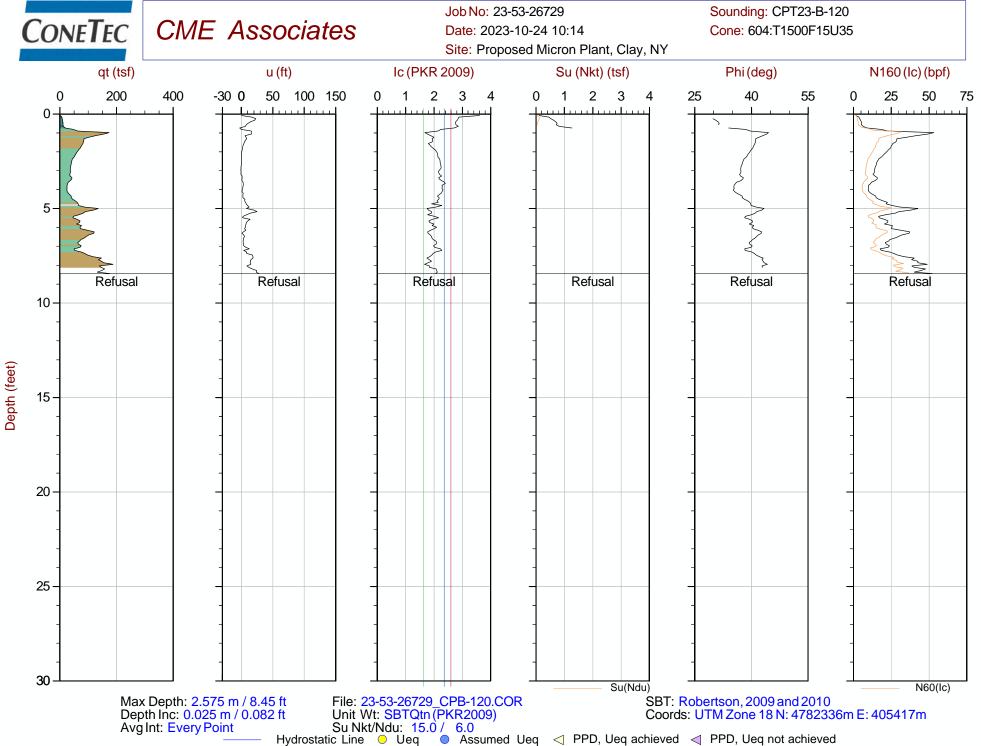


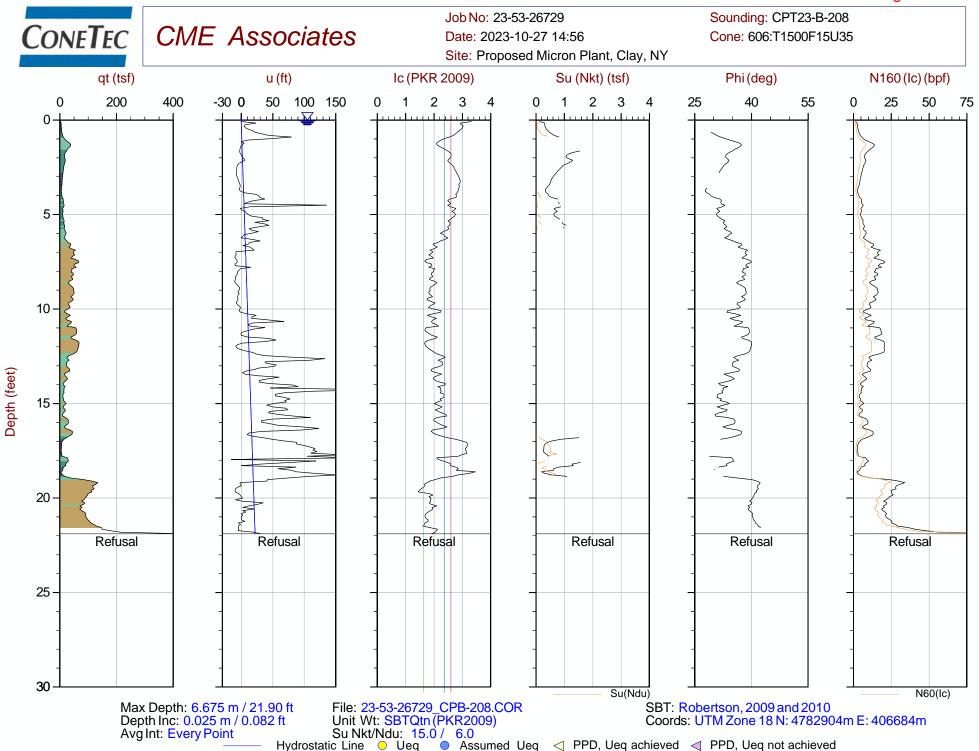


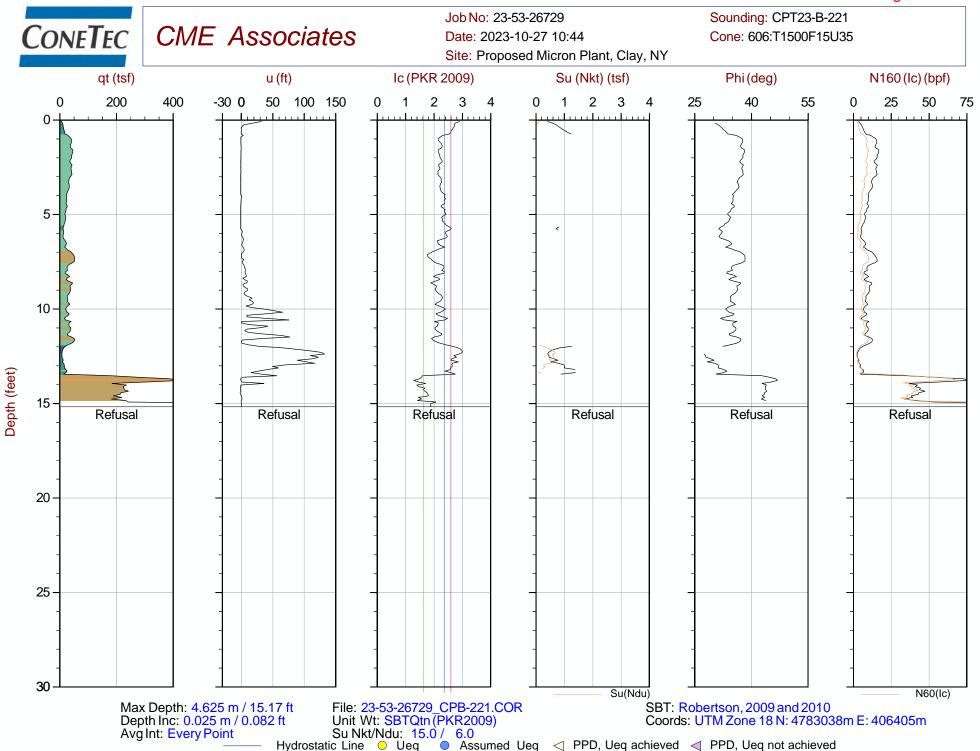


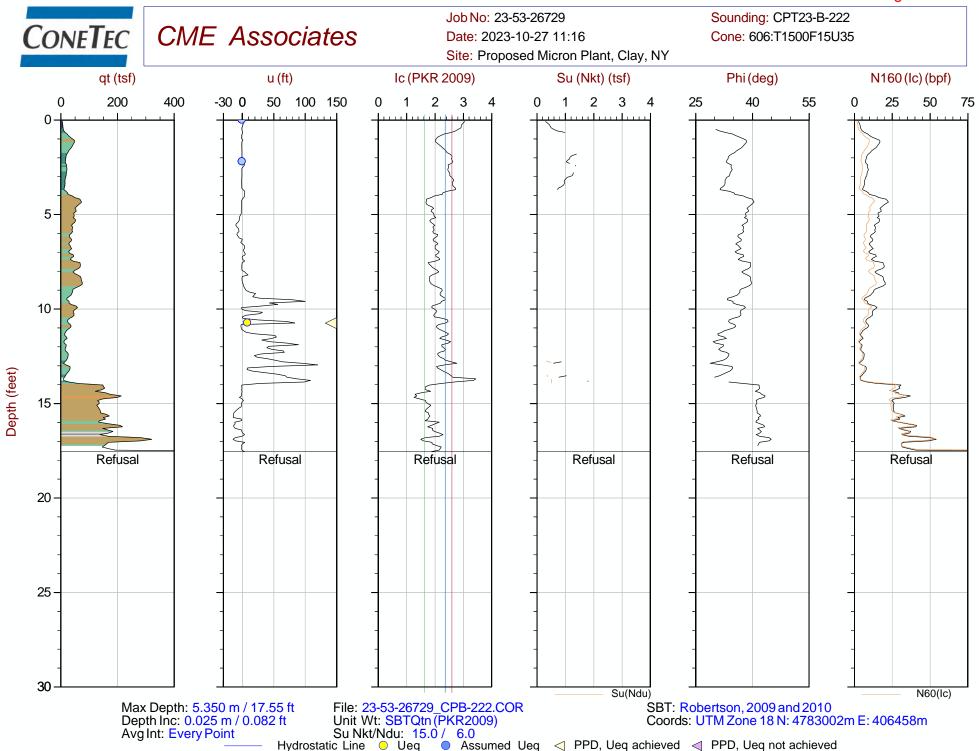


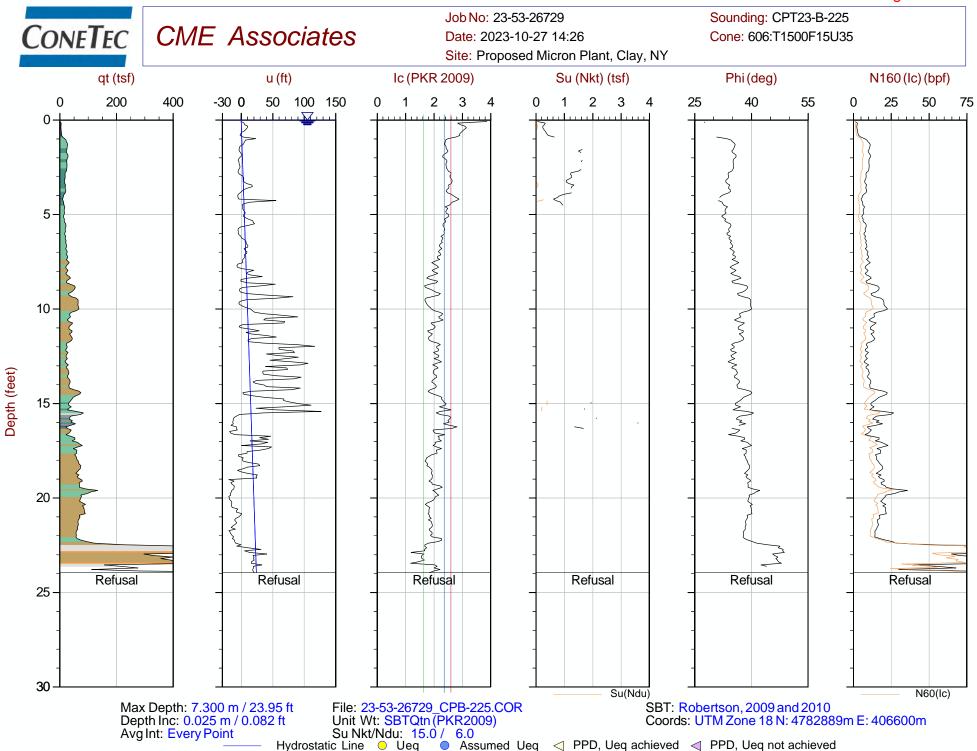


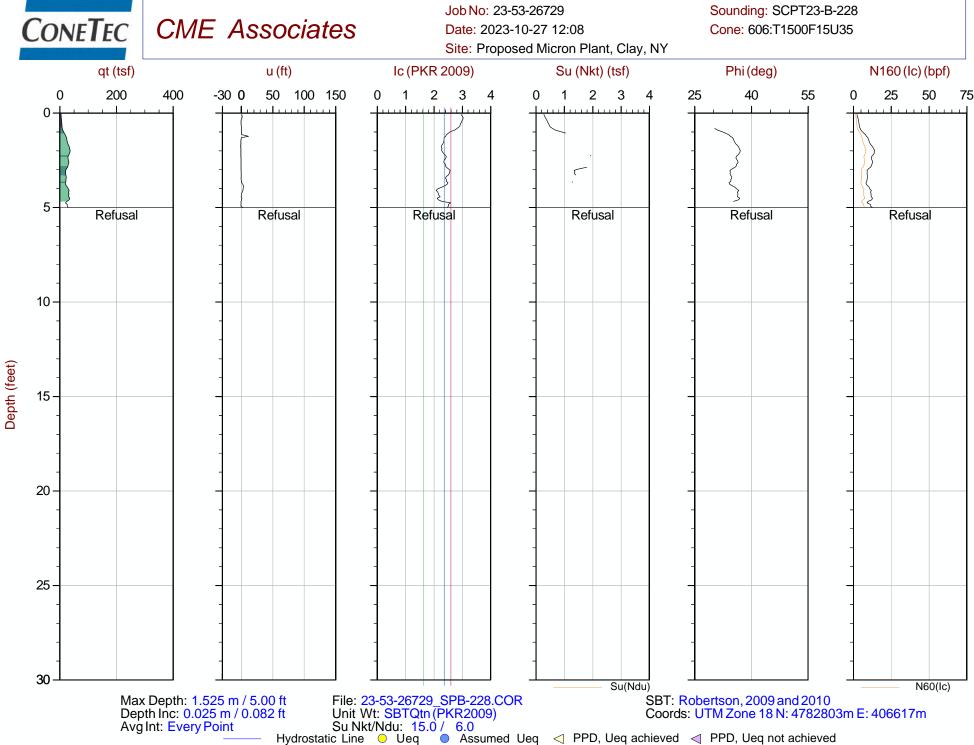




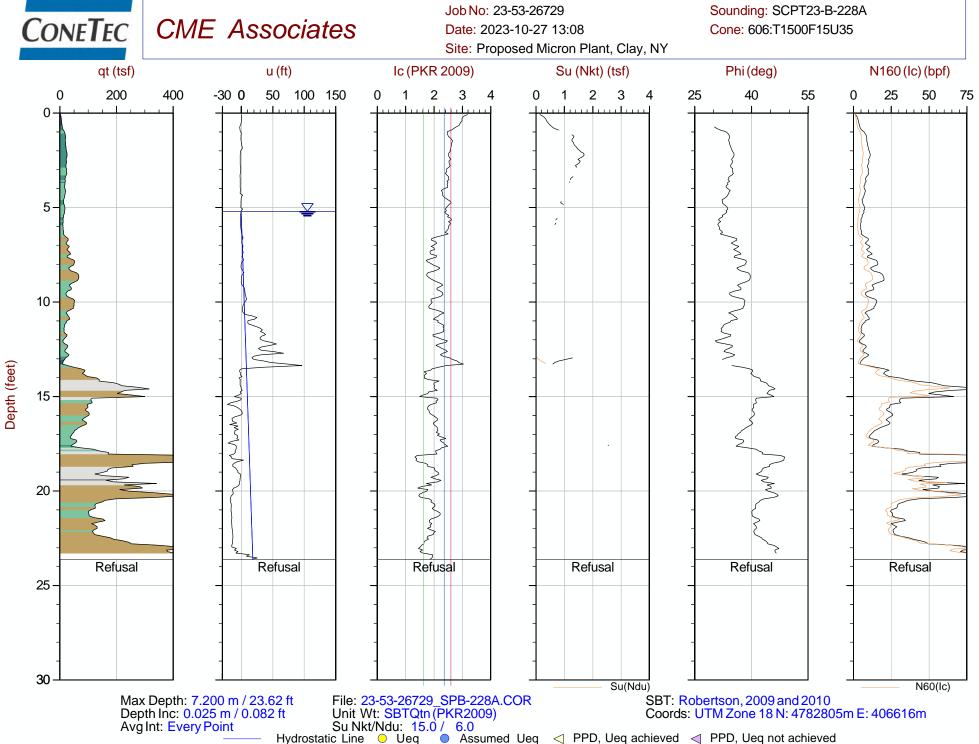


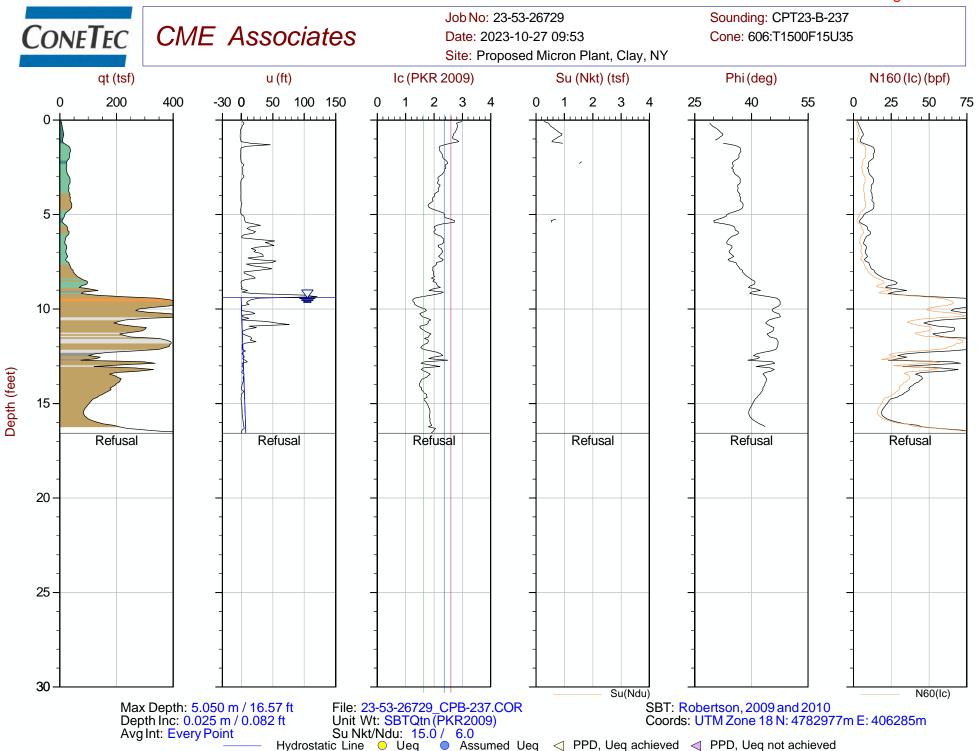


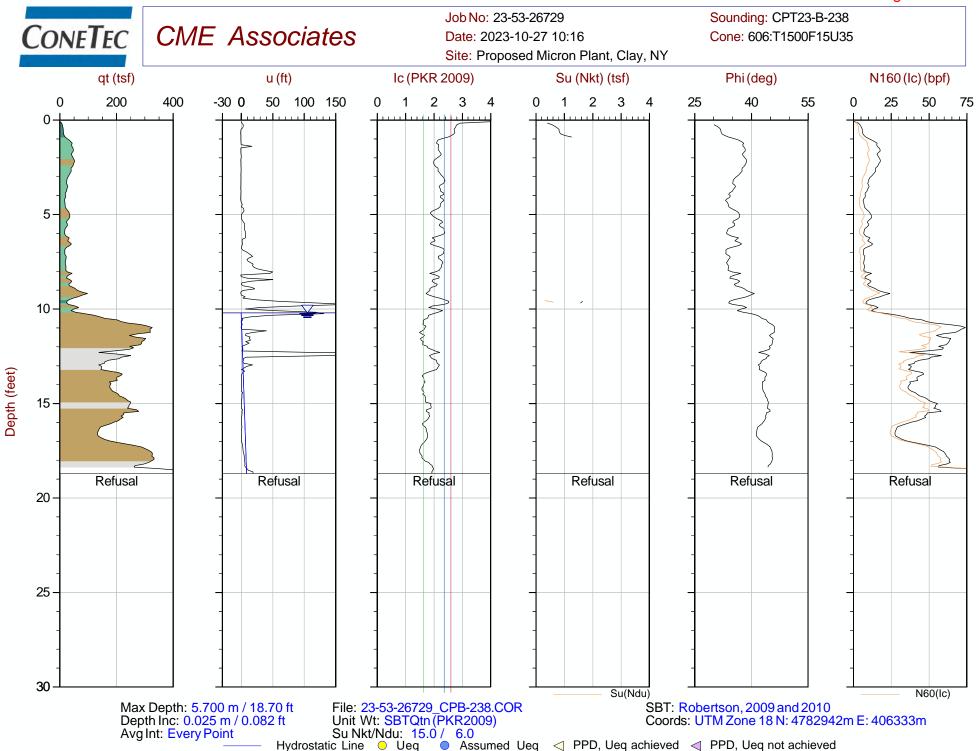


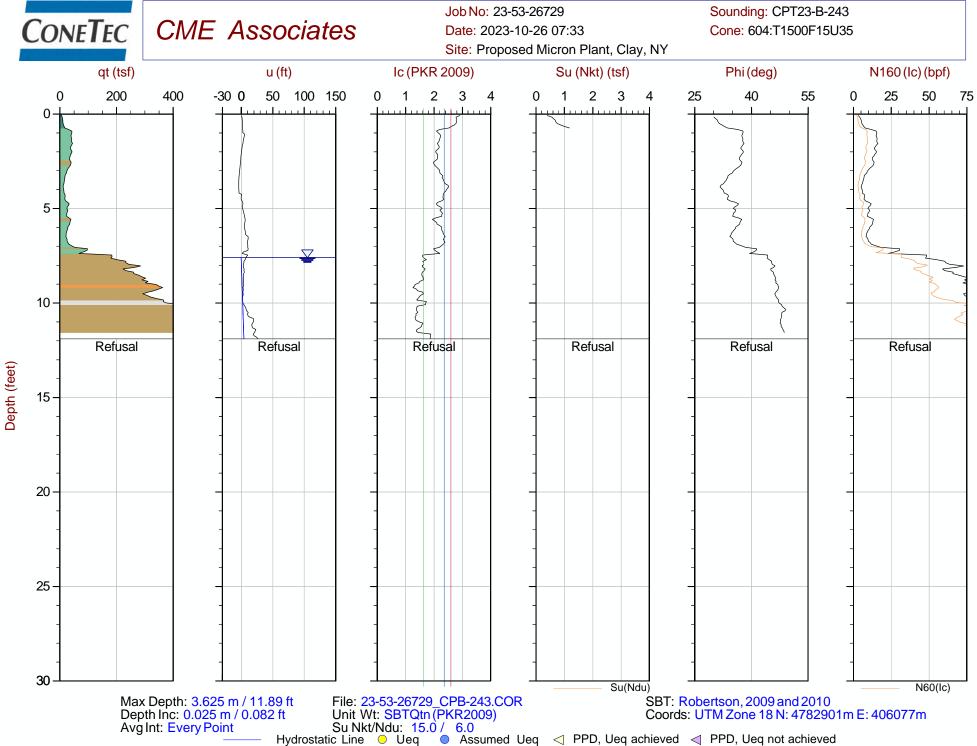


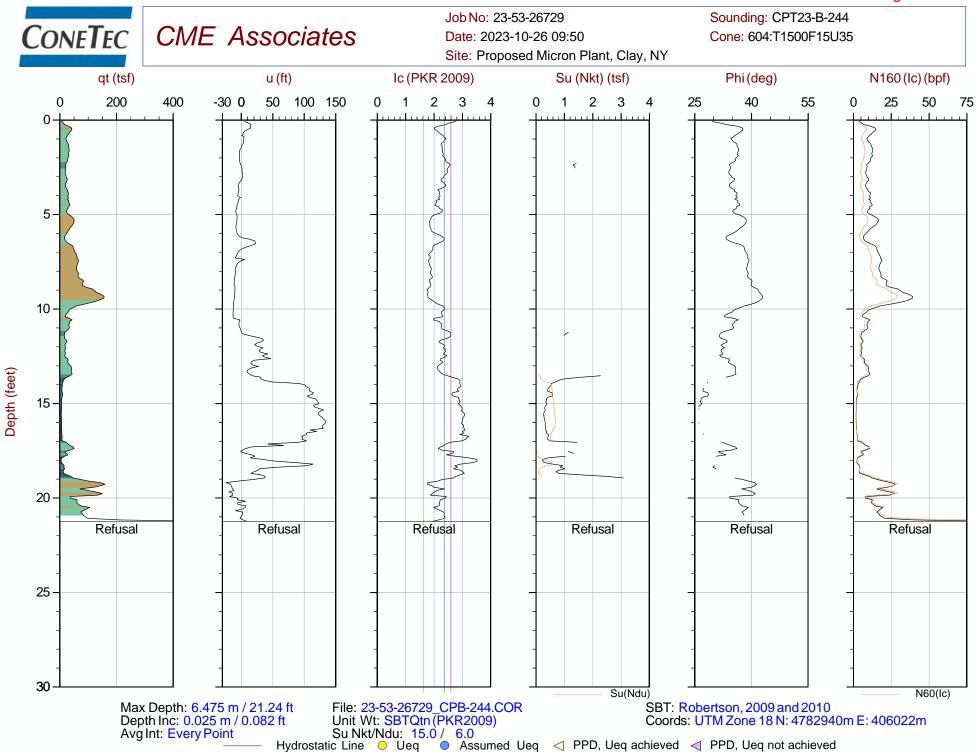
Page 133 of 263

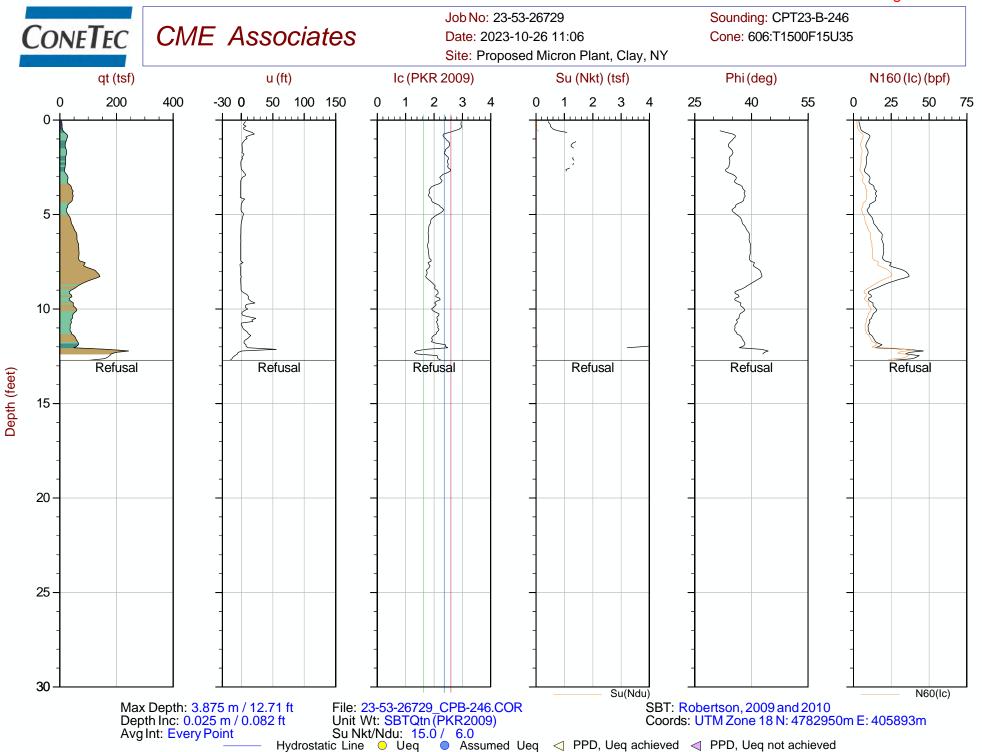


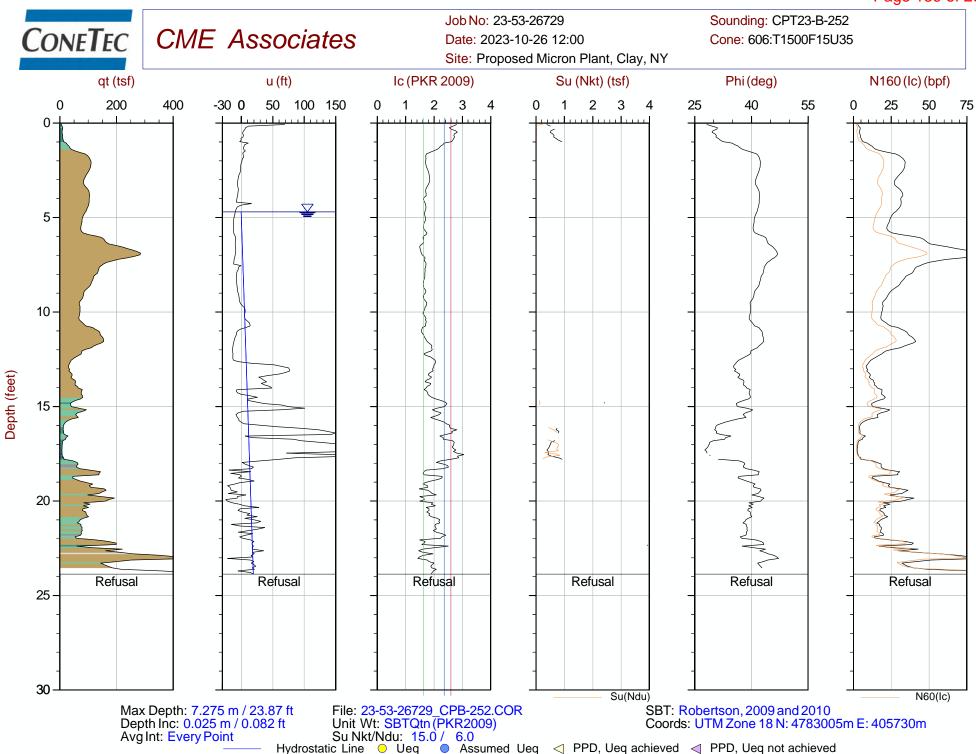


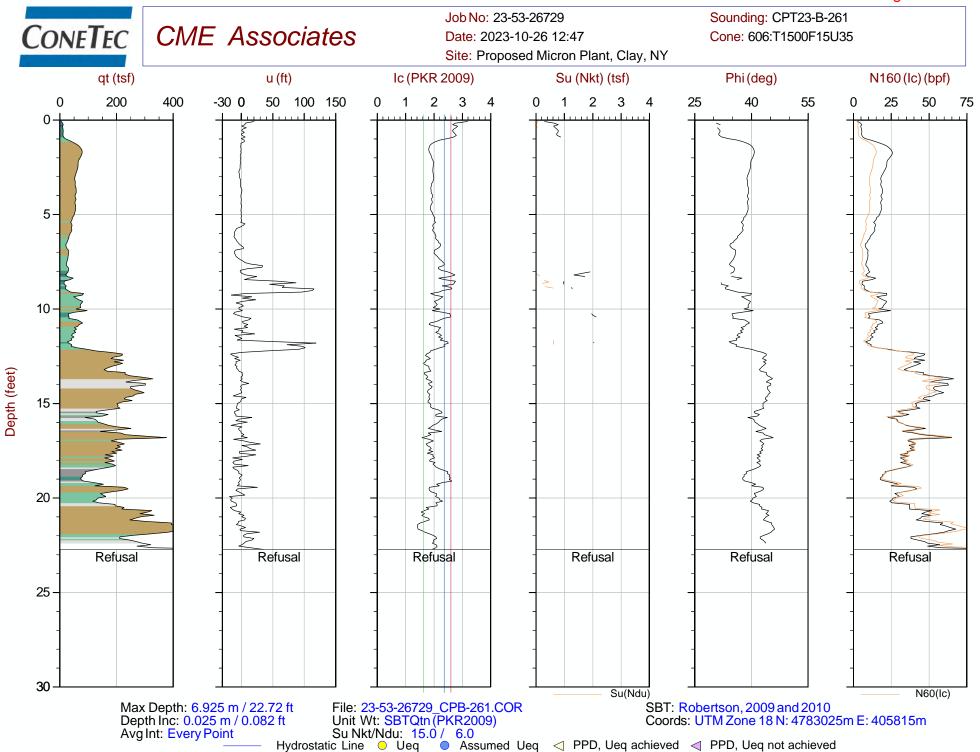


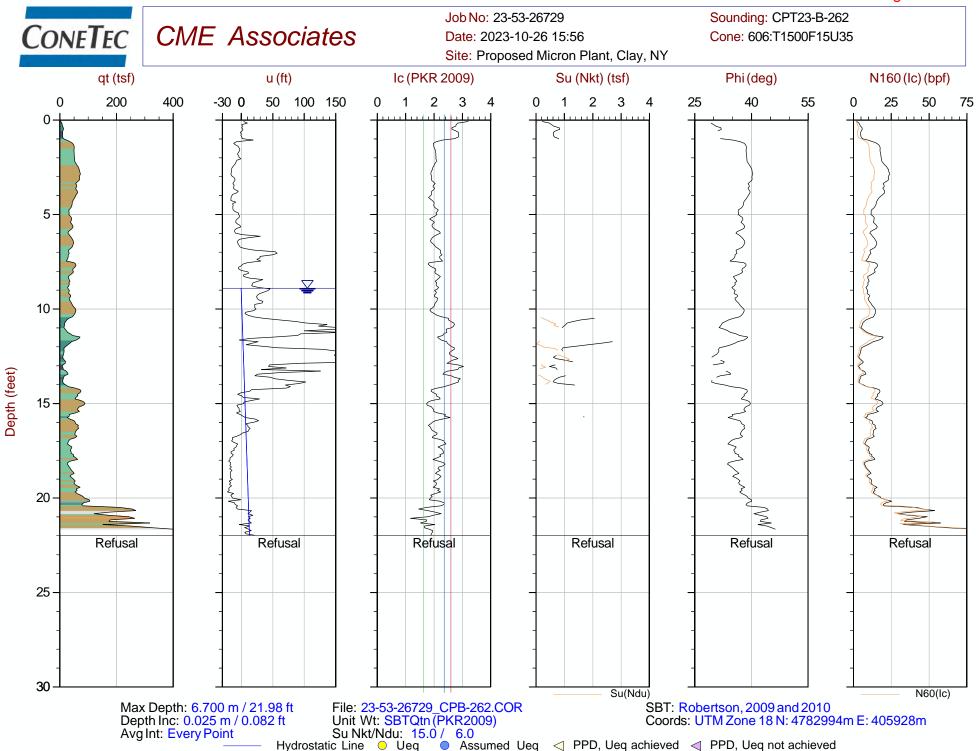




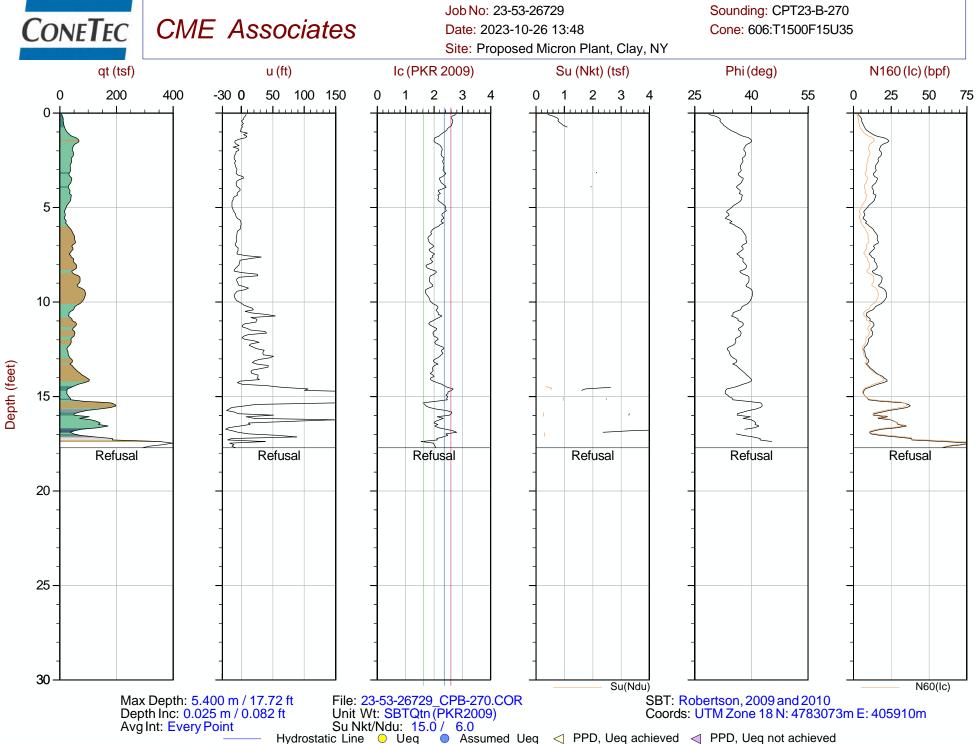


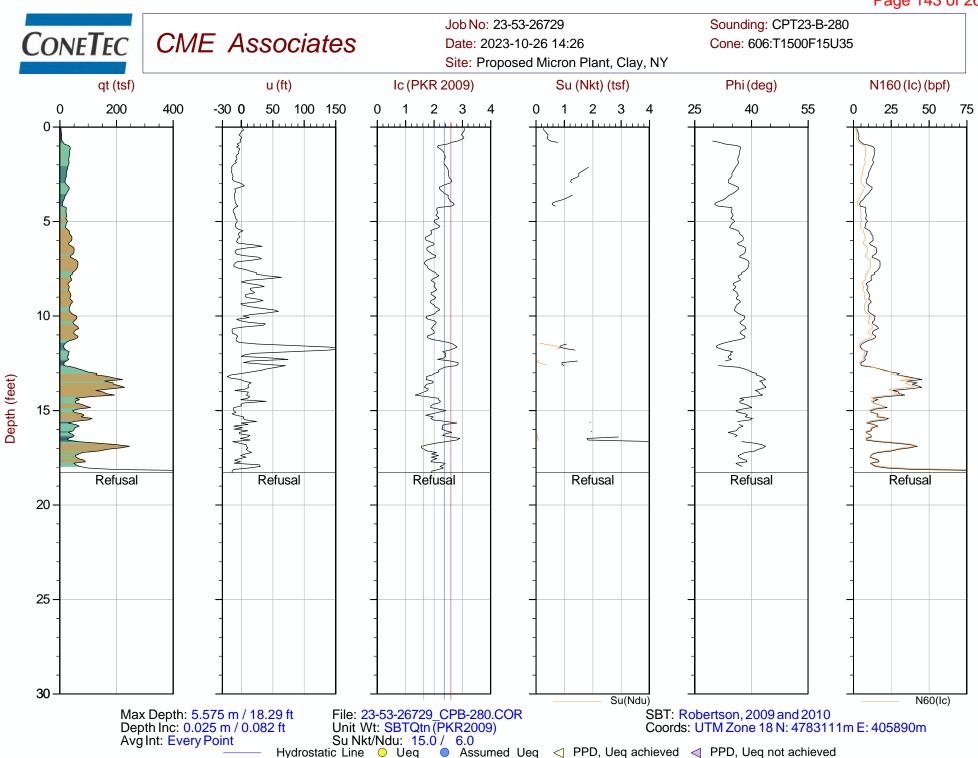


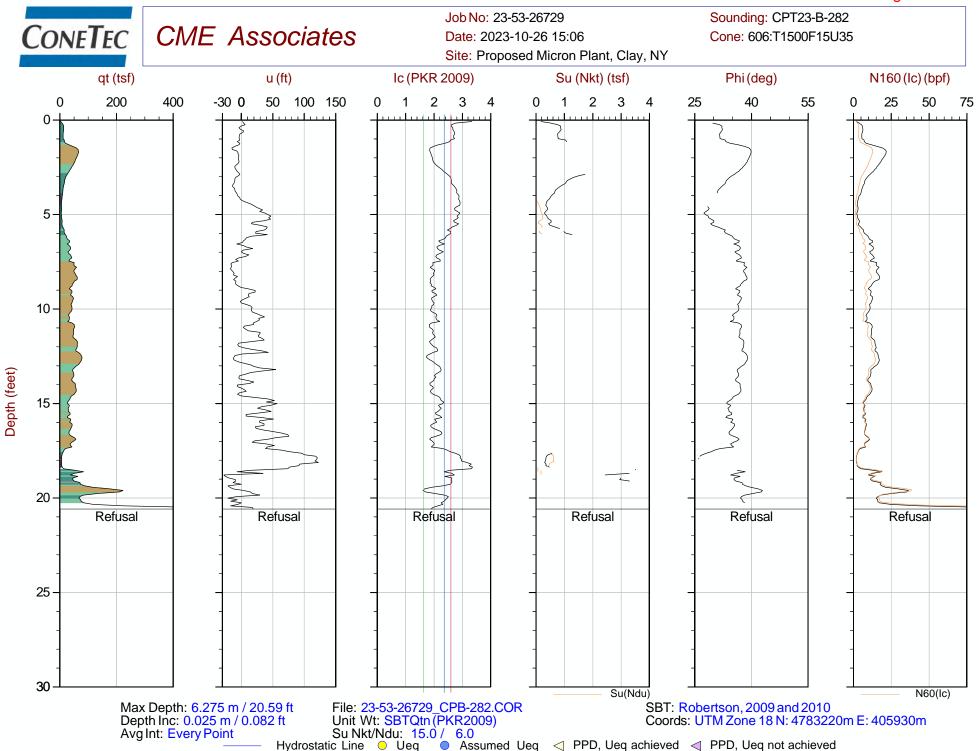


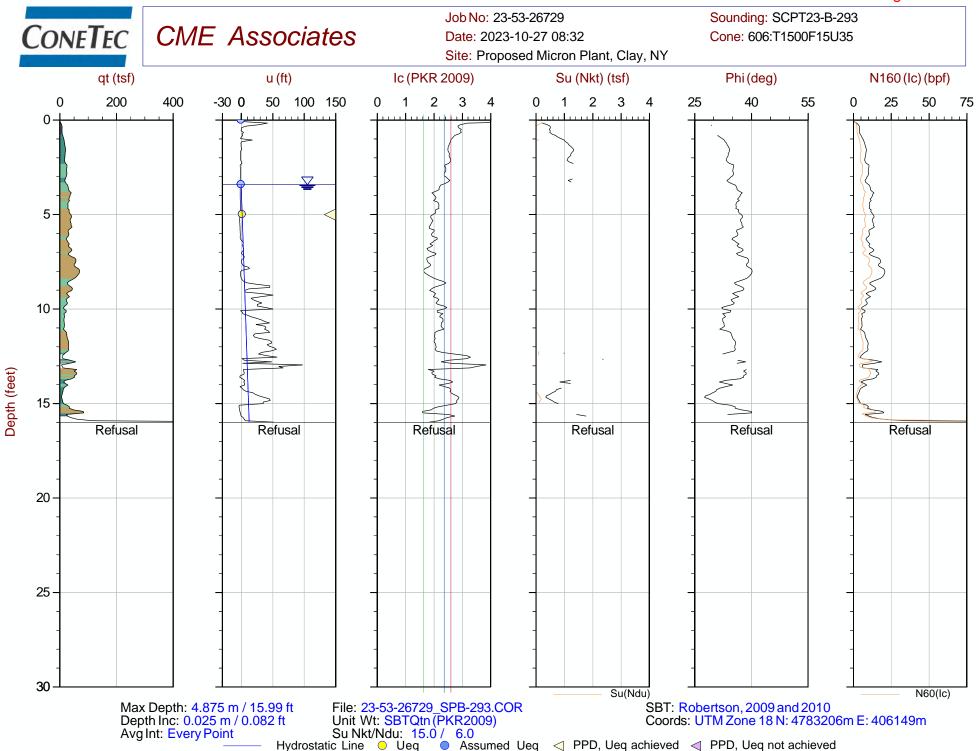


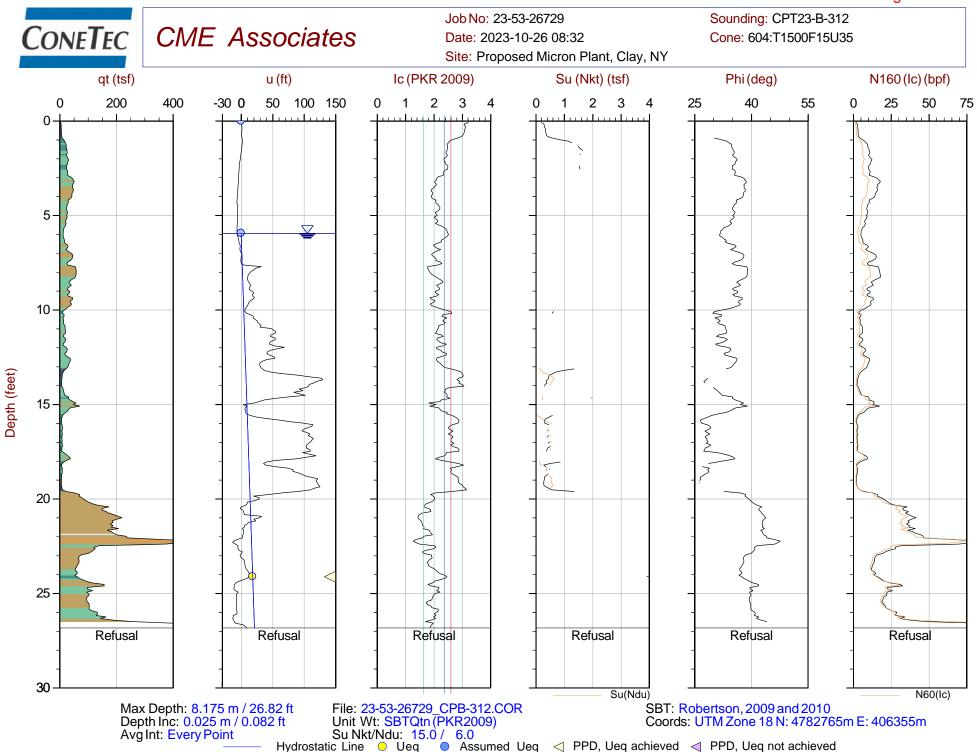
Page 142 of 263

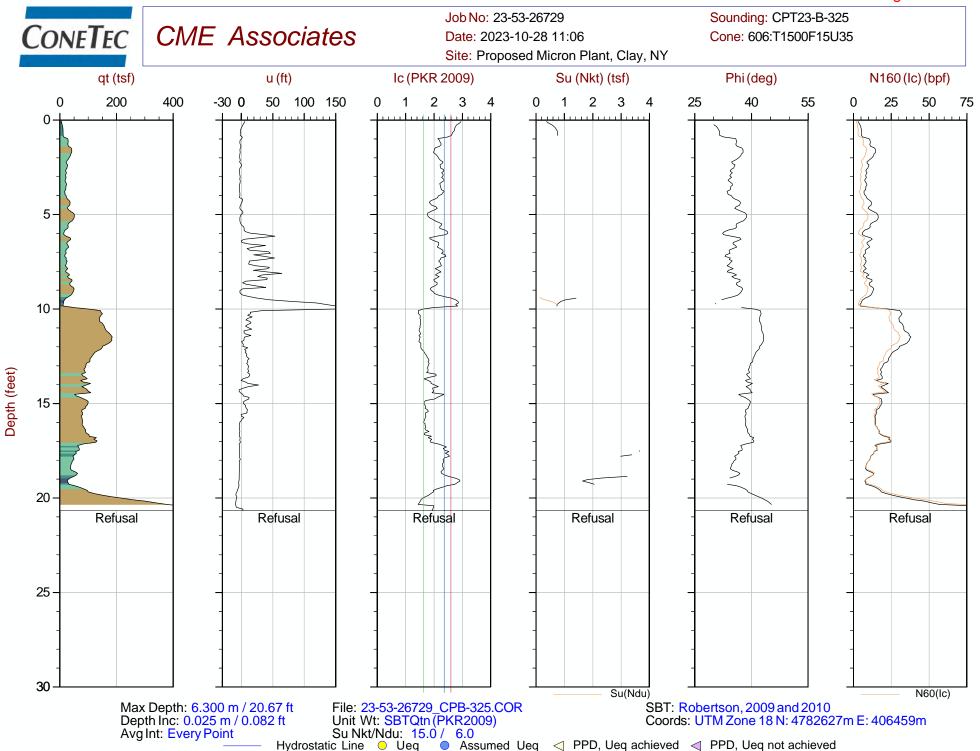


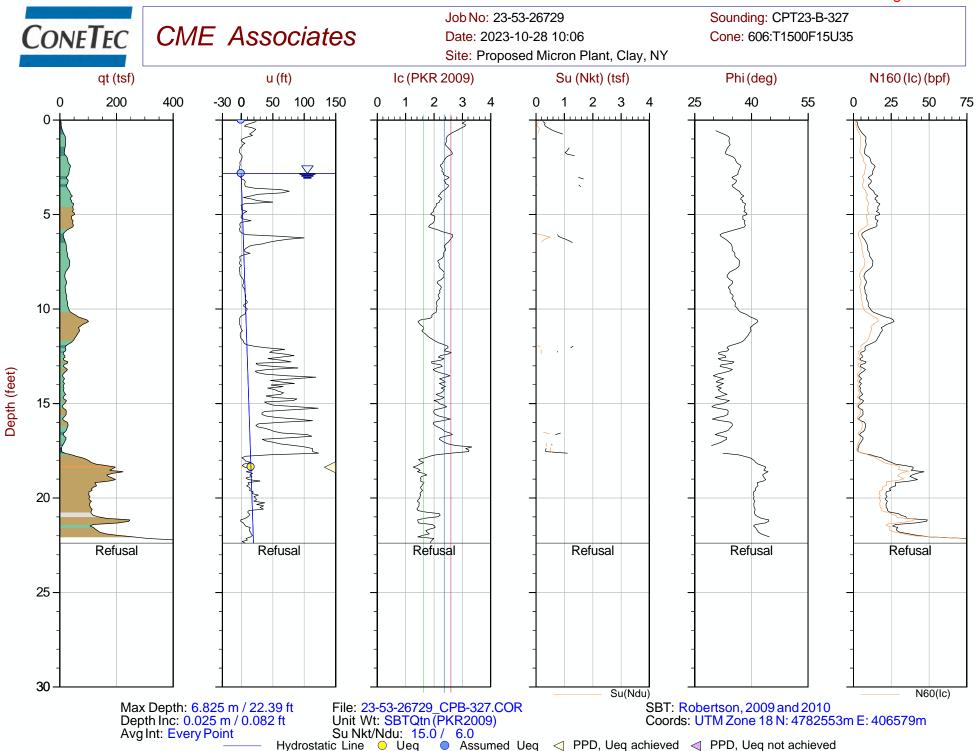


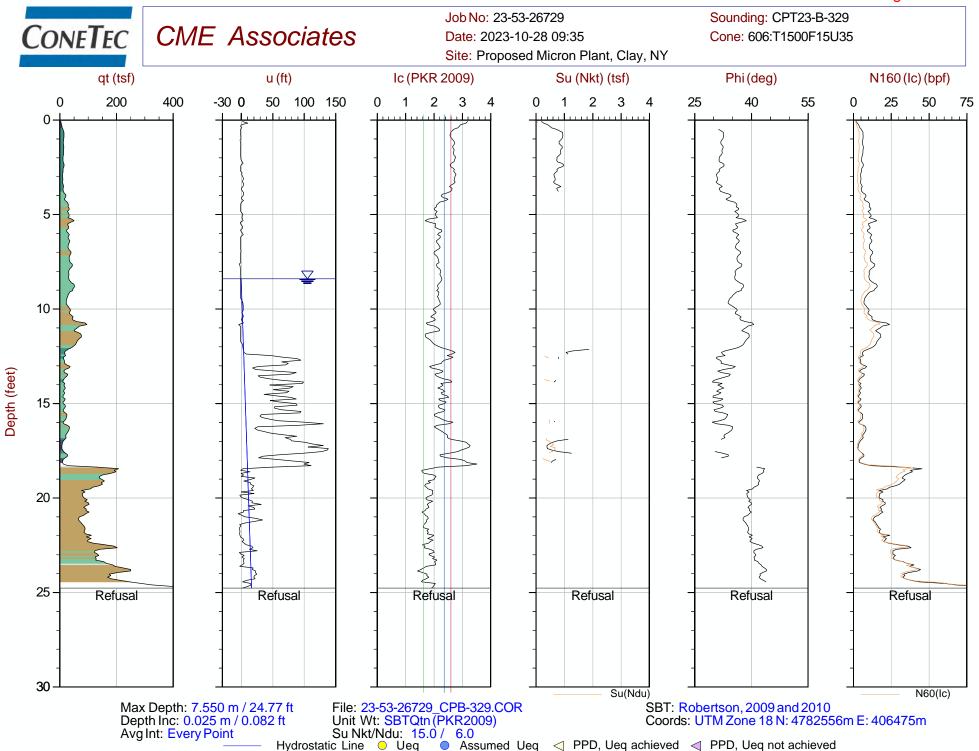


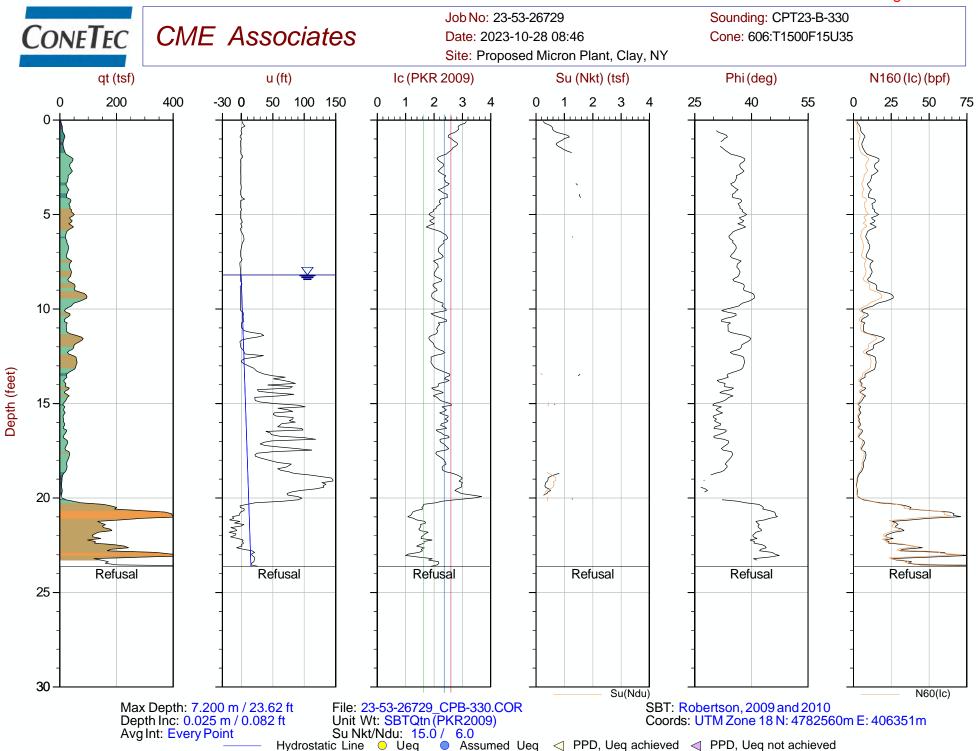


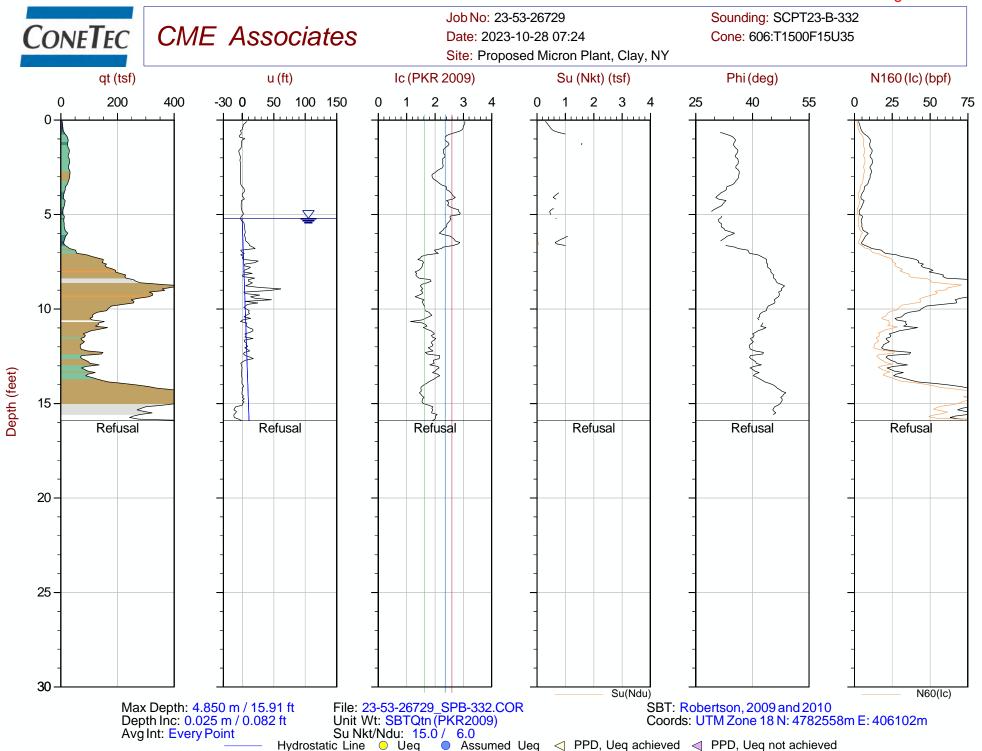


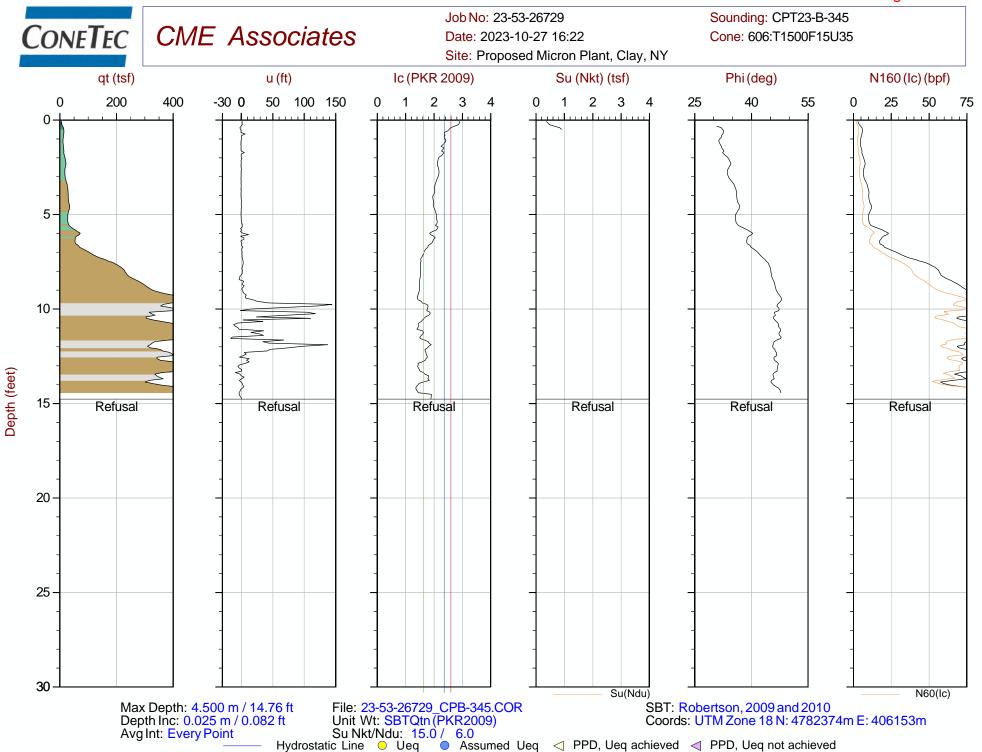


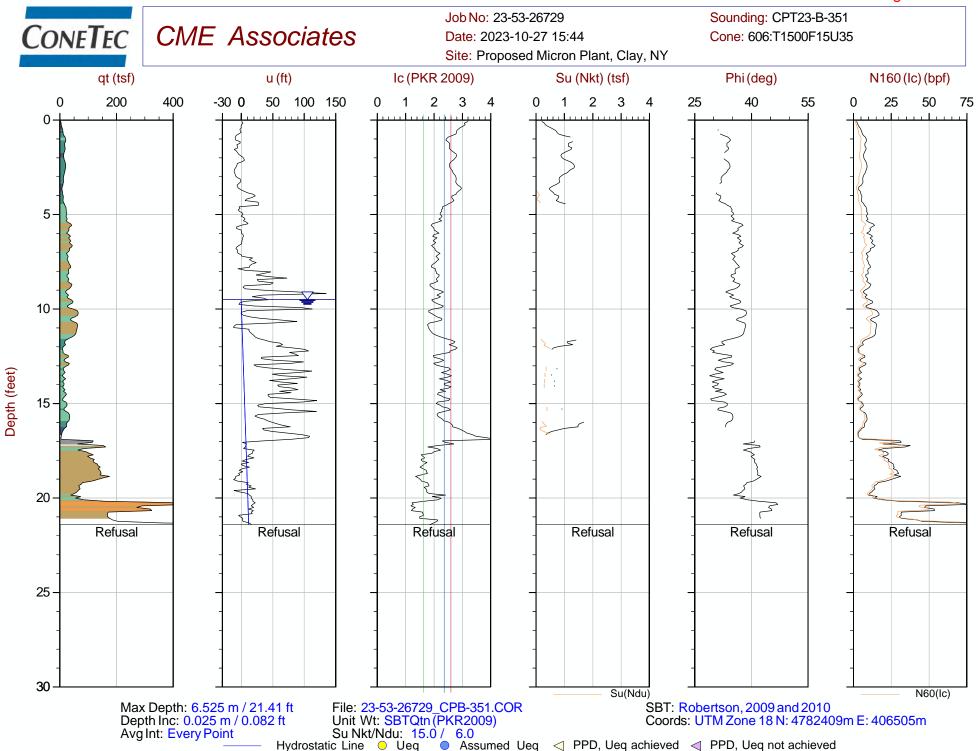


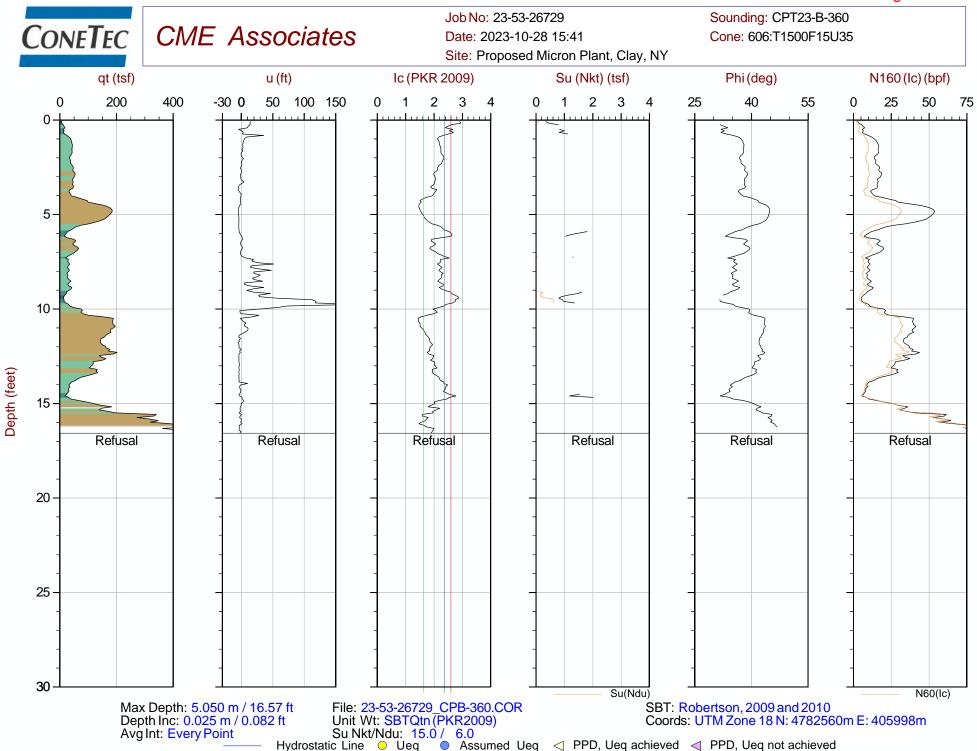


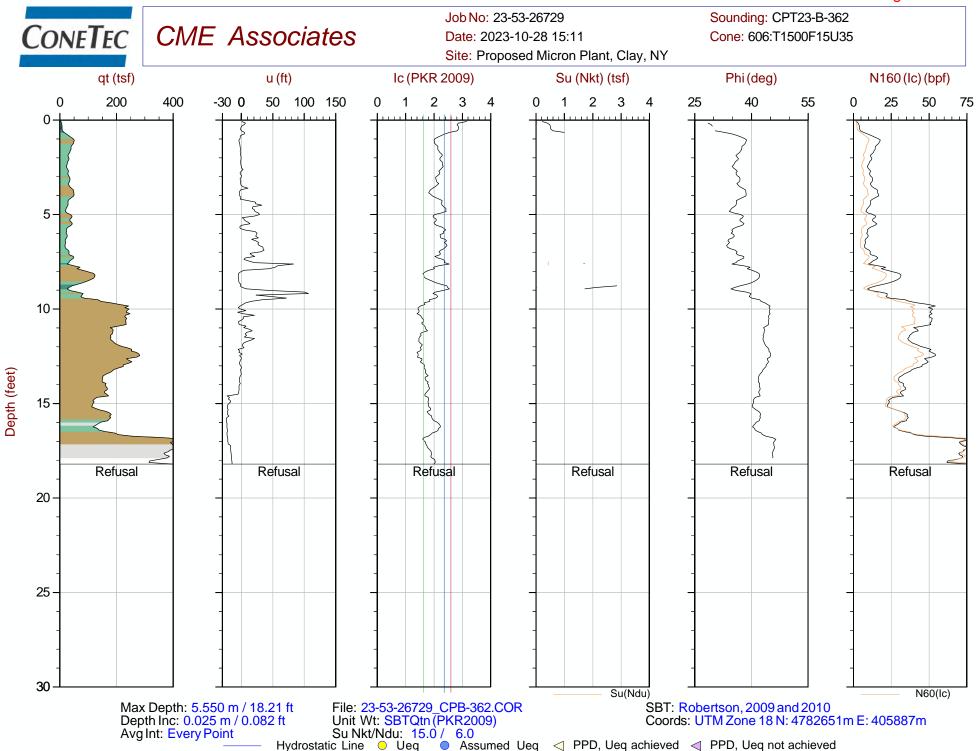


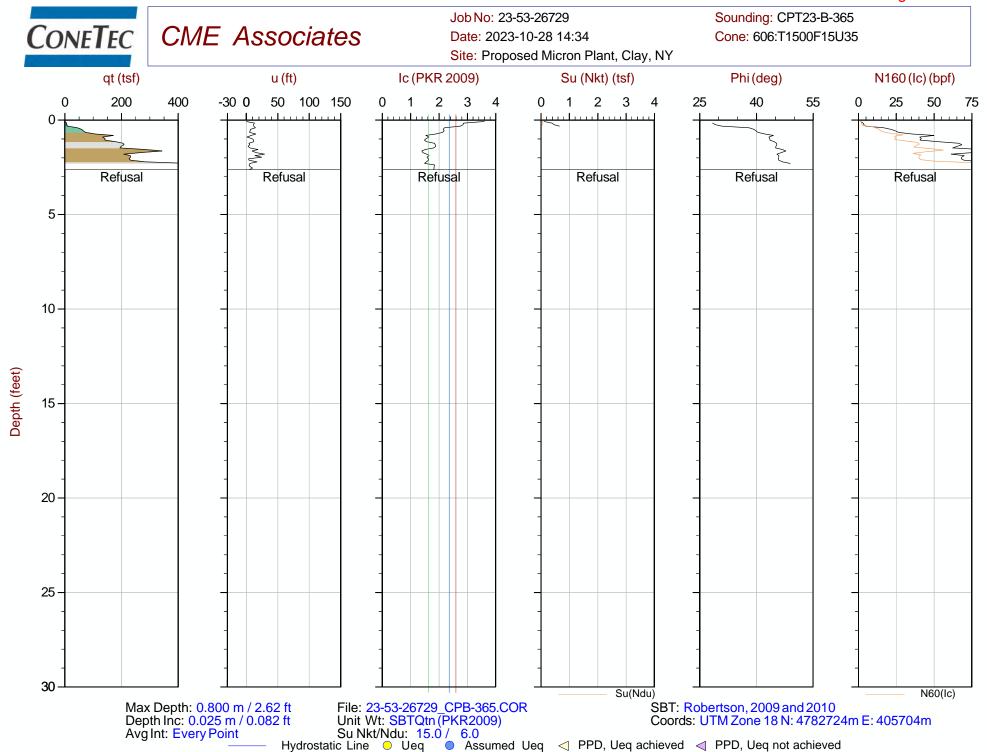


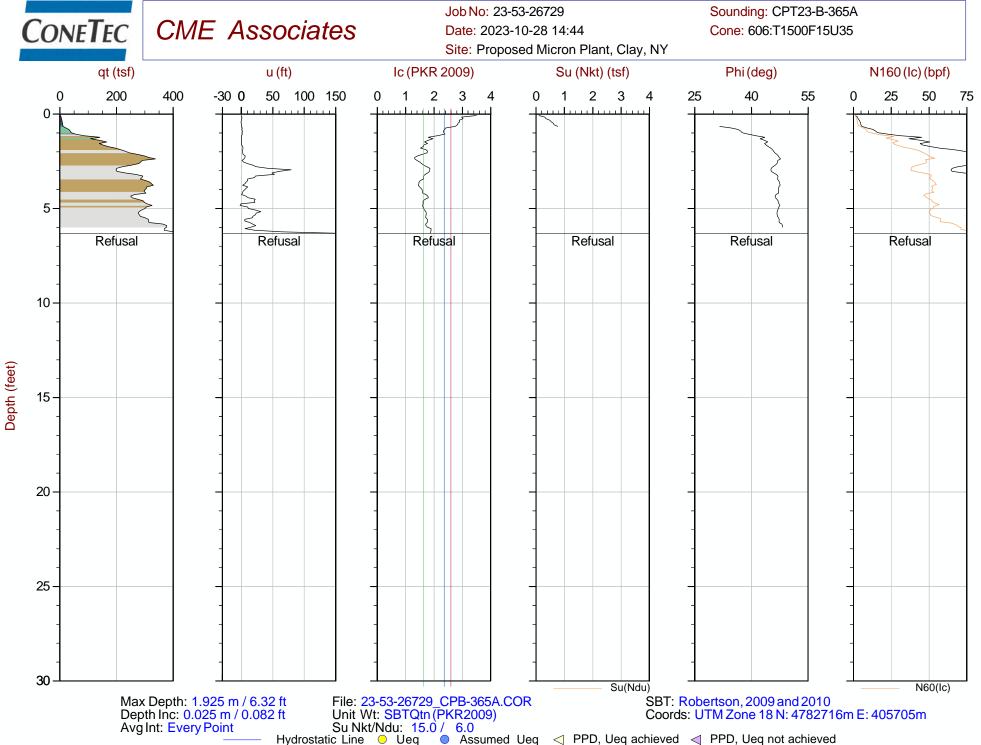


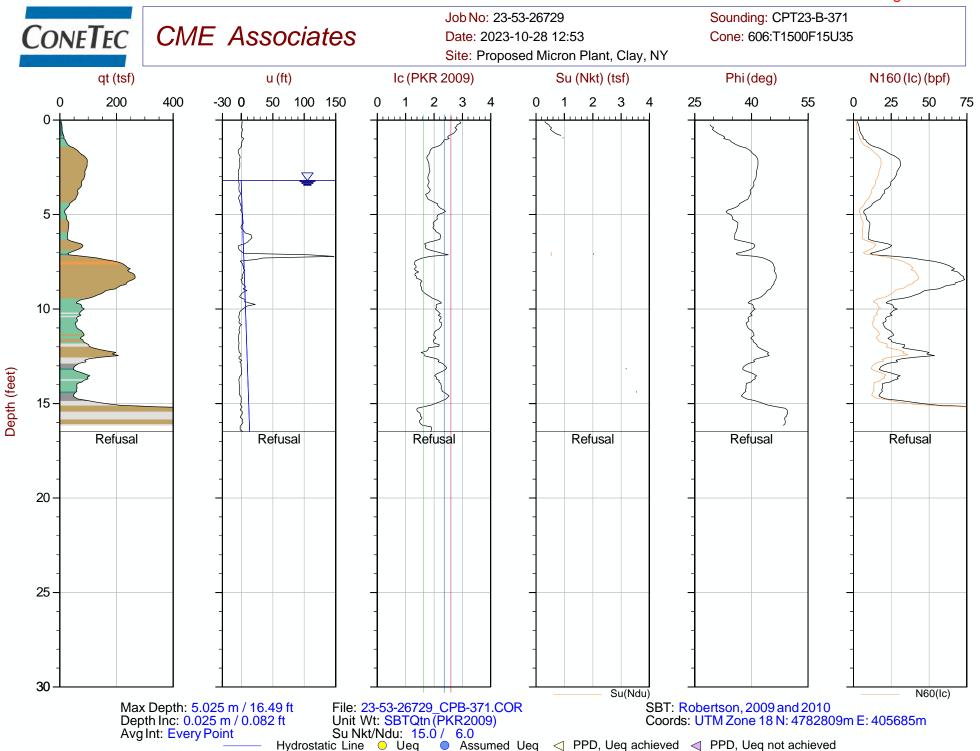


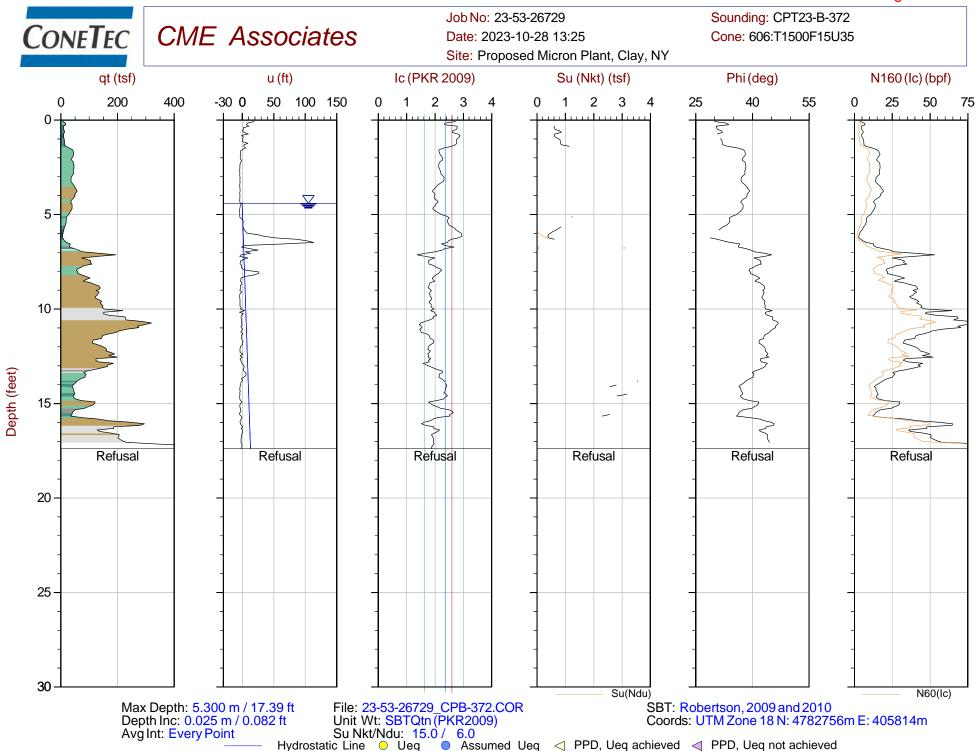


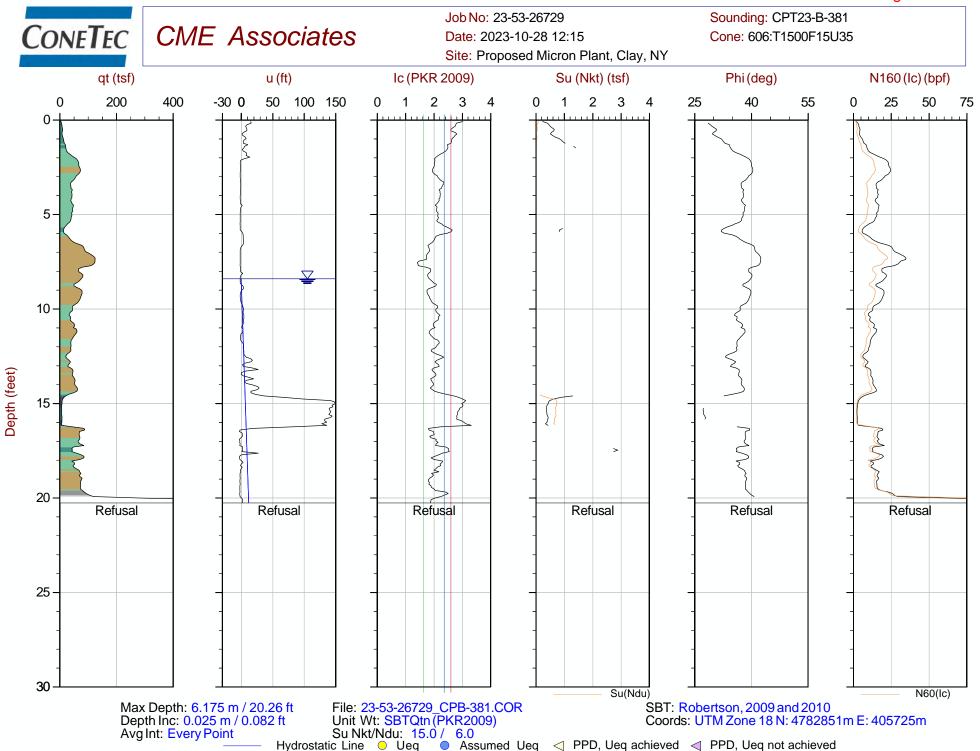


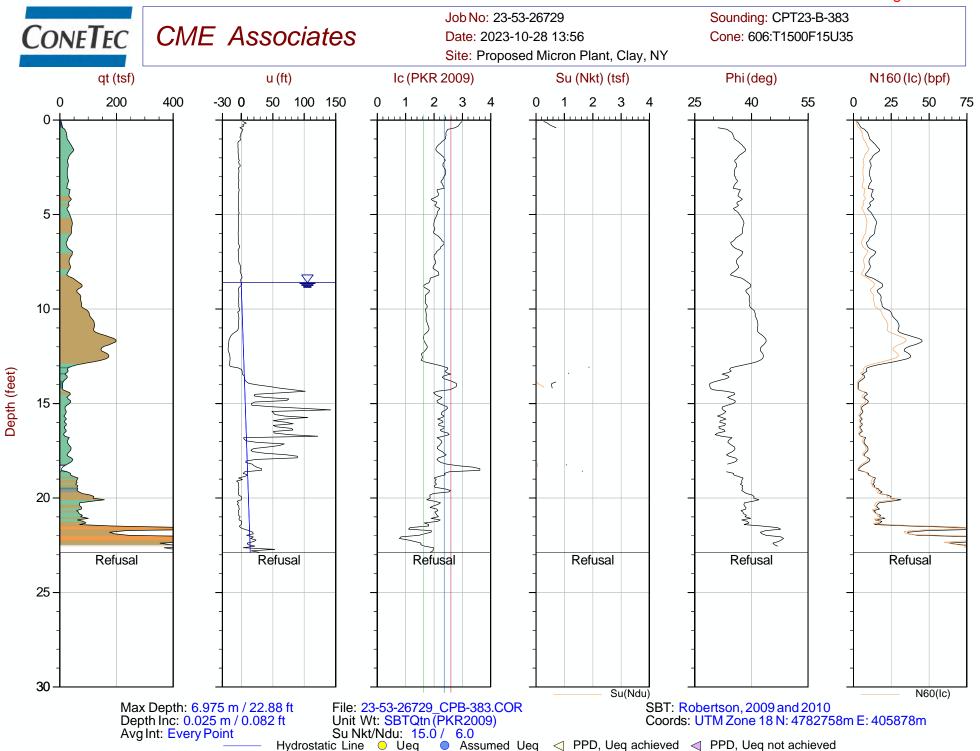






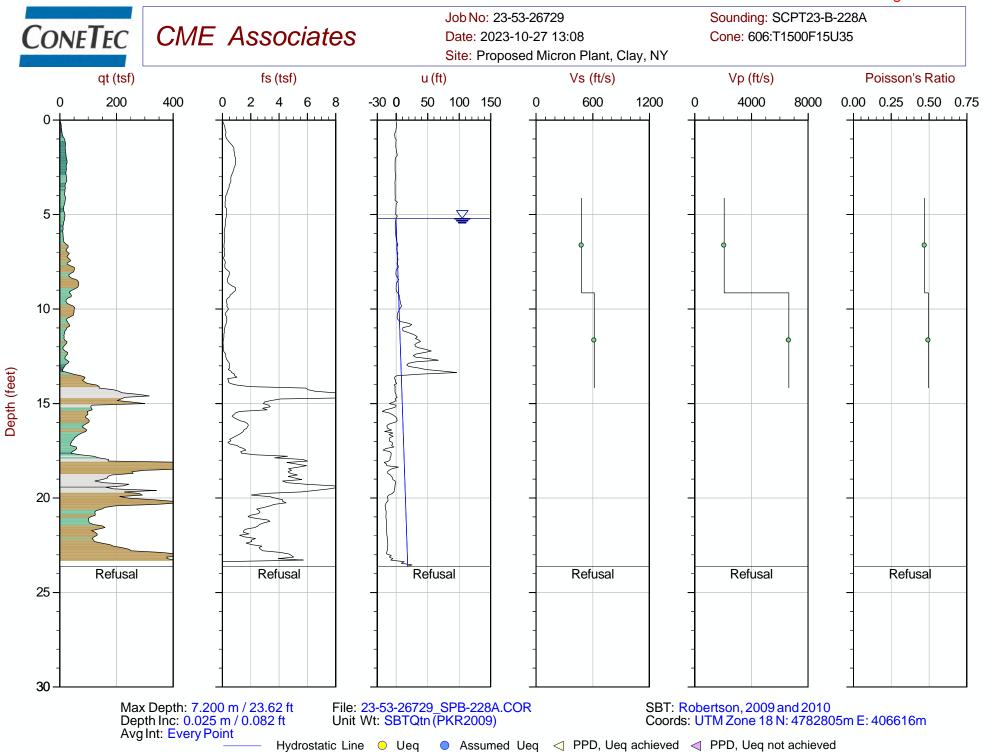


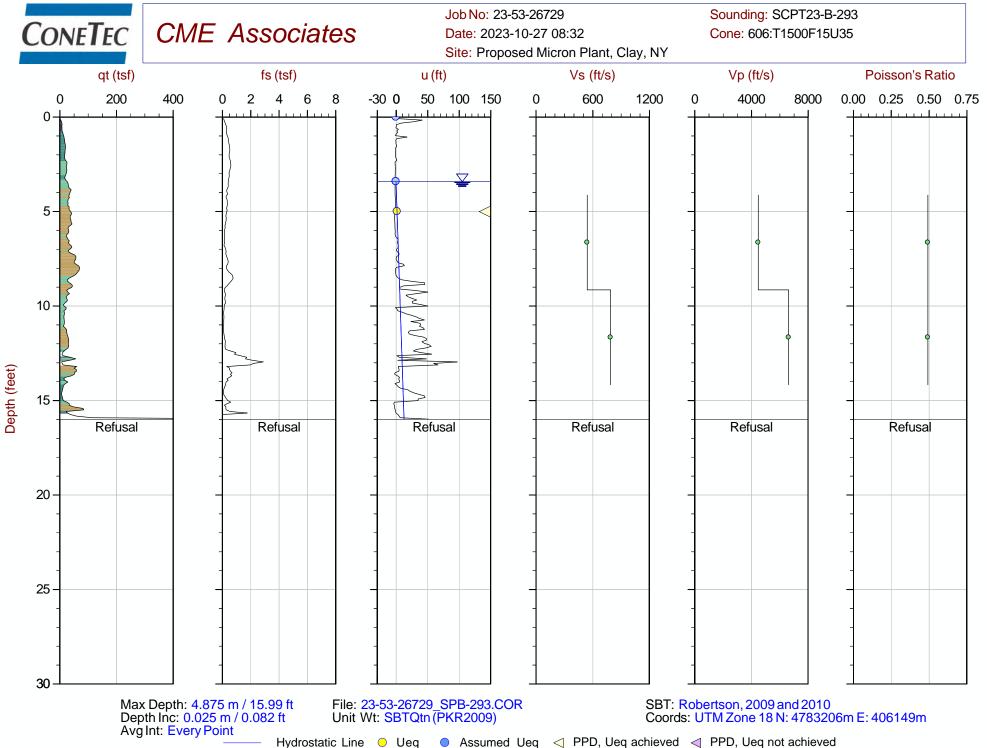


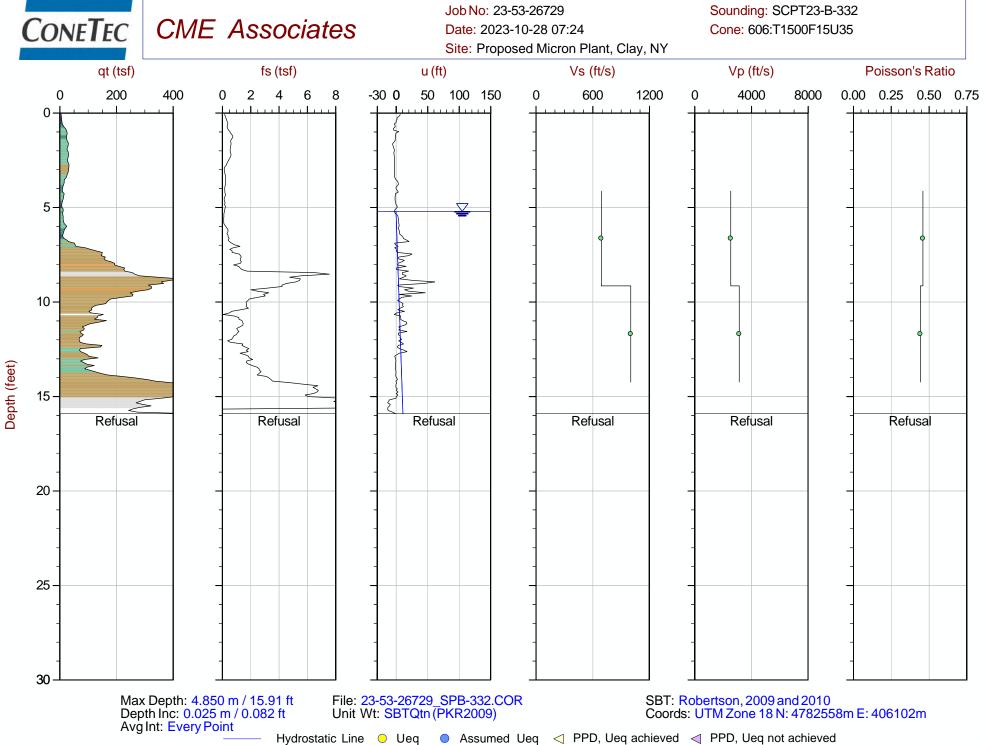


**Seismic Cone Penetration Test Plots** 



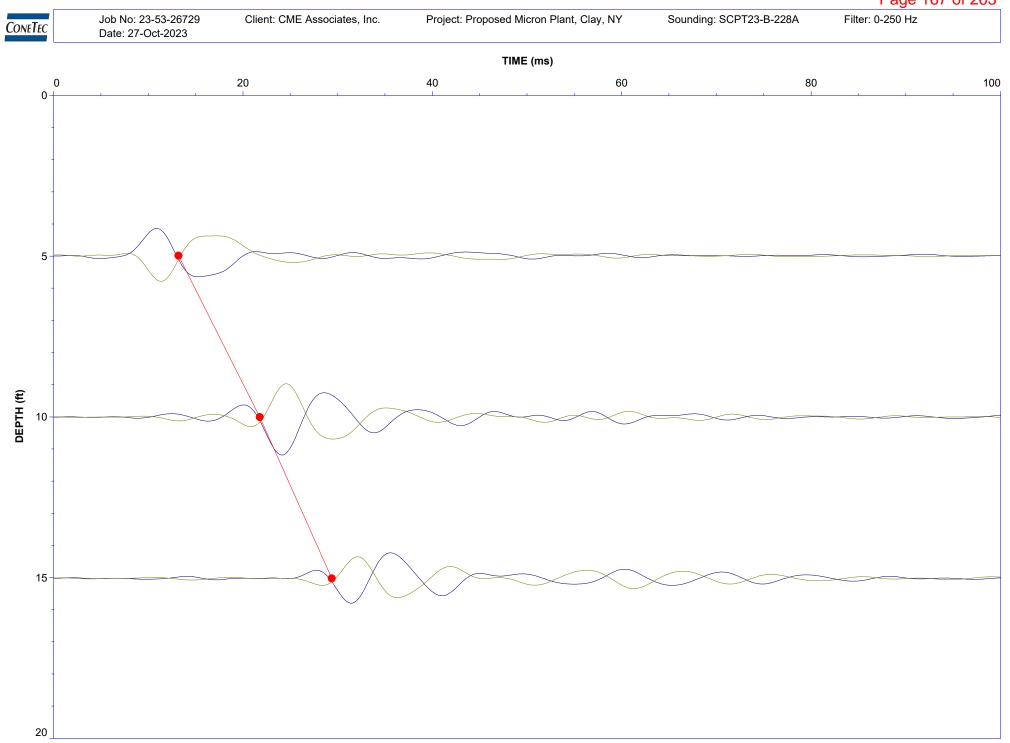




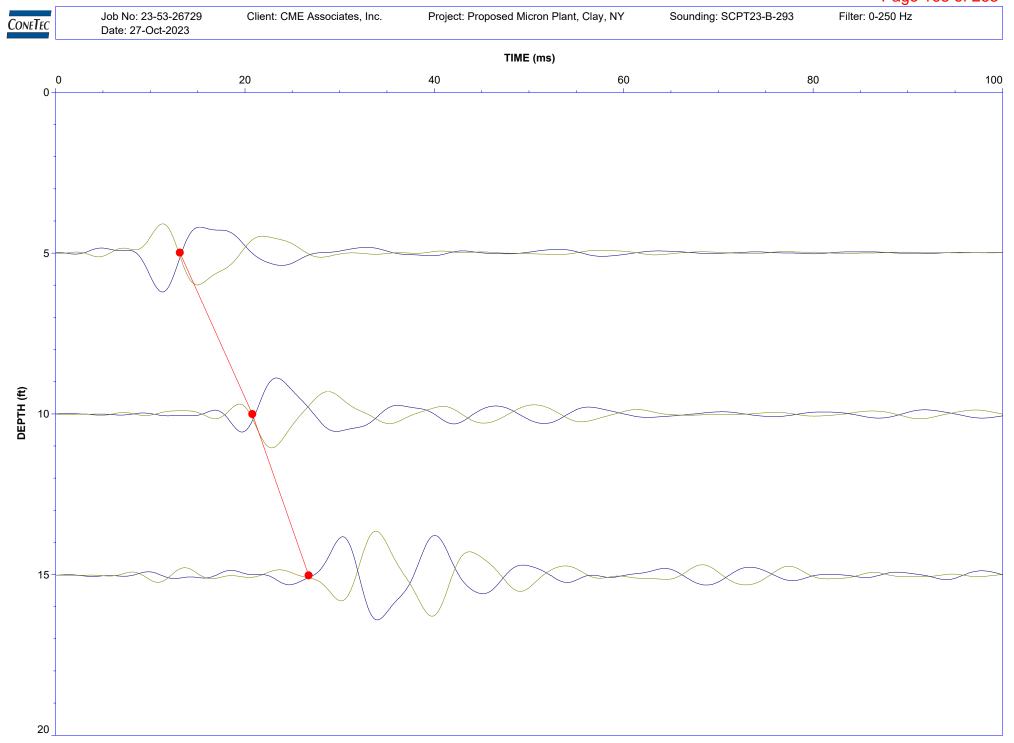


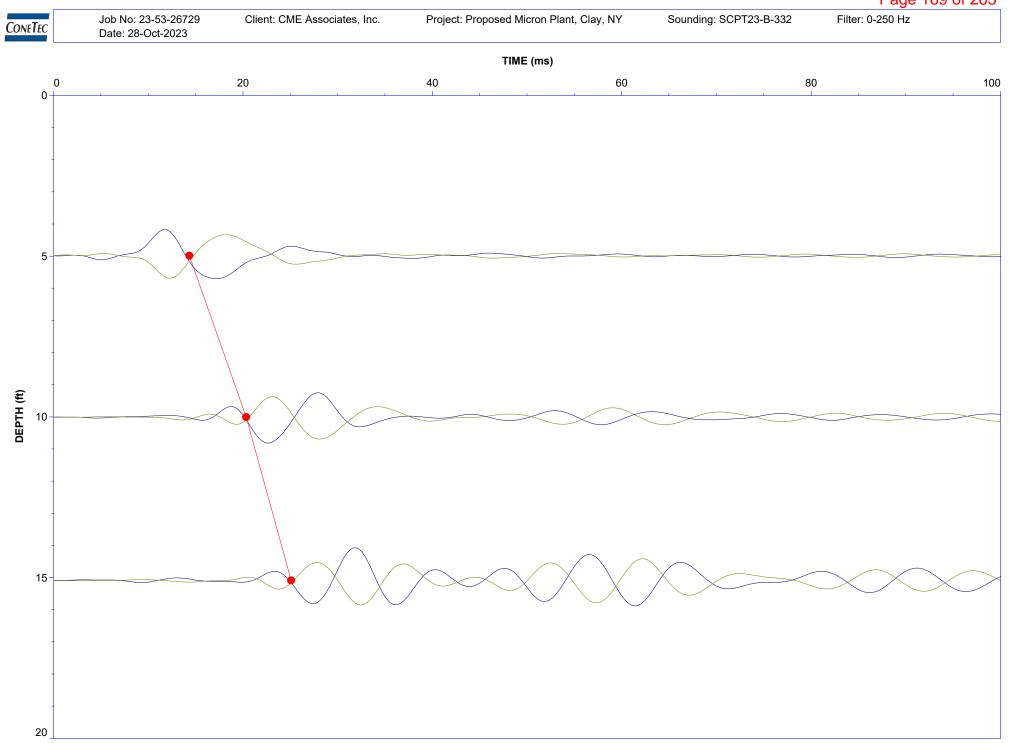
## Seismic Cone Penetration Test Shear Wave (Vs) Traces





CONETECH - CPT REPORT Page 168 of 263









Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

Sounding ID: SCPT23-B-228A Date: 27-Oct-2023

Seismic Source:BeamSeismic Offset (ft):4.27Source Depth (ft):0.00Geophone Offset (ft):0.85

SCPTu SHEAR WAVE VELOCITY TEST RESULTS - Vs							
Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)		
4.99	4.13	5.94					
10.01	9.15	10.10	4.16	8.59	484		
15.03	14.17	14.80	4.70	7.60	618		



Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

**Sounding ID:** SCPT23-B-293 **Date:** 27-Oct-2023

Seismic Source:BeamSeismic Offset (ft):4.27Source Depth (ft):0.00Geophone Offset (ft):0.85

SCPTu SHEAR WAVE VELOCITY TEST RESULTS - Vs							
Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)		
4.99	4.13	5.94					
10.01	9.15	10.10	4.16	7.66	543		
15.03	14.17	14.80	4.70	5.95	790		



Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

**Sounding ID:** SCPT23-B-332 **Date:** 28-Oct-2023

Seismic Source:BeamSeismic Offset (ft):4.27Source Depth (ft):0.00Geophone Offset (ft):0.85

SCPTu SHEAR WAVE VELOCITY TEST RESULTS - Vs							
Tip Depth (ft)	Geophone Depth (ft)	Ray Path (ft)	Ray Path Difference (ft)	Travel Time Interval (ms)	Interval Velocity (ft/s)		
4.99	4.13	5.94					
10.01	9.15	10.10	4.16	6.01	692		
15.09	14.24	14.87	4.77	4.74	1005		

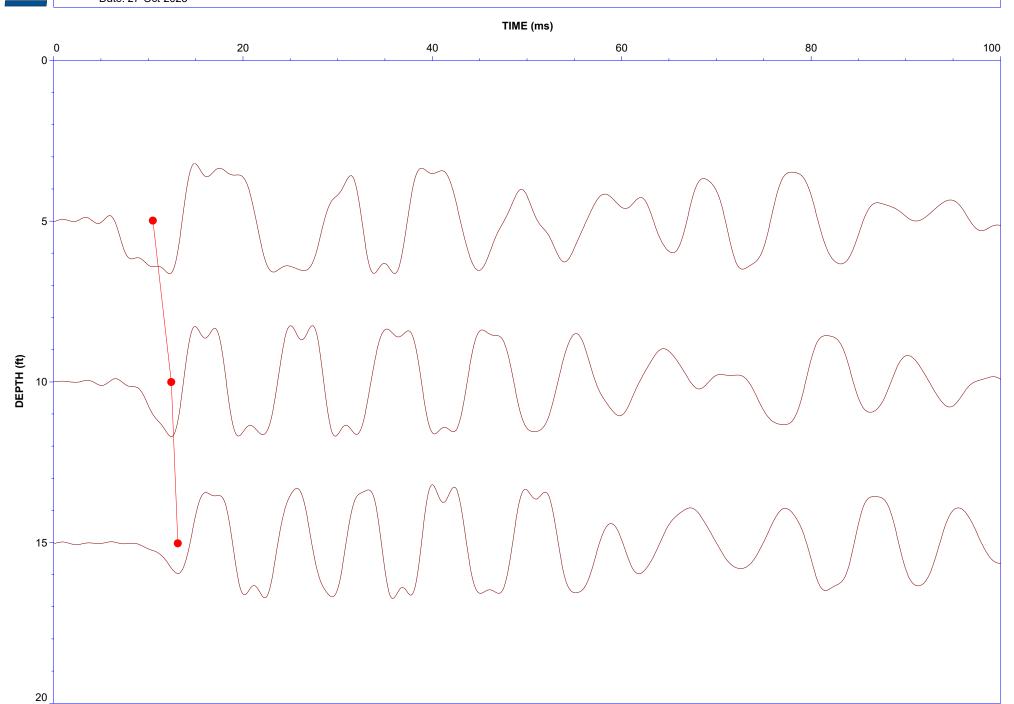
Seismic Cone Penetration Test Compression Wave (Vp)

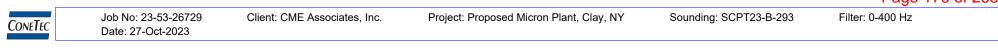
Traces

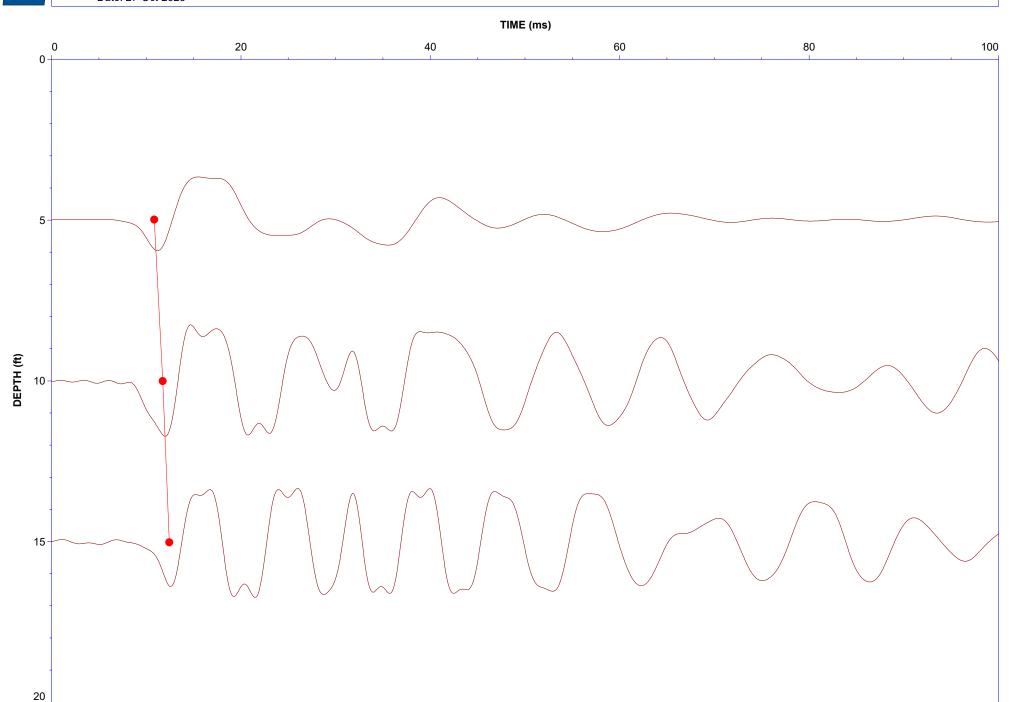


Filter: 0-400 Hz

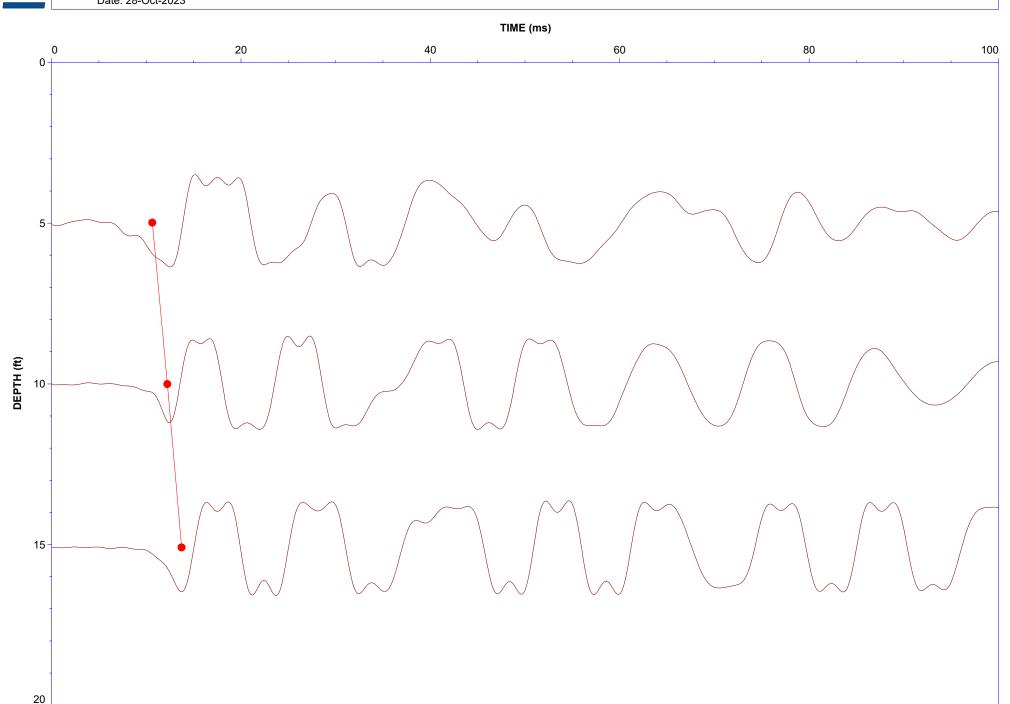
CONETEC Job No: 23-53-26729 Client: CME Associates, Inc. Project: Proposed Micron Plant, Clay, NY Sounding: SCPT23-B-228A Date: 27-Oct-2023











Seismic Cone Penetration Test Compression Wave (Vp)
Results





Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

Sounding ID: SCPT23-B-228A Date: 27-Oct-2023

Seismic Source: Plate
Seismic Offset (ft): 4.59
Source Depth (ft): 0.00
Geophone Offset (ft): 0.85

## SCPTu COMPRESSION WAVE VELOCITY TEST RESULTS - Vp Tip Geophone **Ray Path Travel Time** Interval Ray Depth Path **Difference** Depth Interval Velocity (ft) (ft) (ft) (ft) (ms) (ft/s) 4.99 4.13 6.18 9.15 10.24 10.01 4.06 1.94 2089 15.03 14.17 14.90 4.66 0.70 6654



Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

**Sounding ID:** SCPT23-B-293 **Date:** 27-Oct-2023

Seismic Source:PlateSeismic Offset (ft):4.66Source Depth (ft):0.00Geophone Offset (ft):0.85

## SCPTu COMPRESSION WAVE VELOCITY TEST RESULTS - Vp Tip Geophone **Ray Path Travel Time** Interval Ray Depth Path **Difference** Depth Interval Velocity (ft) (ft) (ft) (ft) (ms) (ft/s) 4.99 4.13 6.23 9.15 10.01 10.27 4.04 0.90 4491 15.03 14.17 0.70 14.92 4.65 6640



Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

**Sounding ID:** SCPT23-B-332 **Date:** 28-Oct-2023

Seismic Source: Plate
Seismic Offset (ft): 4.56
Source Depth (ft): 0.00
Geophone Offset (ft): 0.85

## SCPTu COMPRESSION WAVE VELOCITY TEST RESULTS - Vp Tip Geophone **Ray Path Travel Time** Interval Ray Depth Path **Difference** Depth Interval Velocity (ft) (ft) (ft) (ft) (ms) (ft/s) 4.99 4.13 6.15 9.15 10.01 10.23 4.07 1.60 2545 15.09 14.24 14.95 4.73 1.50 3150





**Job No:** 23-53-26729

Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

Sounding ID: SCPT23-B-228A Date: 27-Oct-2023

SCPTu POISSON'S RATIO RESULTS							
Depth From (ft)	Depth To (ft)	Vs Interval Velocity (ft/s)	Vp Interval Velocity (ft/s)	Poisson's Ratio			
4.13	9.15	483.70	2089.20	0.47			
9.15	14.17	618.40	6654.30	0.50			



**Job No:** 23-53-26729

Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

 Sounding ID:
 SCPT23-B-293

 Date:
 27-Oct-2023

SCPTu POISSON'S RATIO RESULTS						
Depth From (ft)	Depth To (ft)	Vs Interval Velocity (ft/s)	Vp Interval Velocity (ft/s)	Poisson's Ratio		
4.13	9.15	542.80	4491.20	0.49		
9.15	14.17	790.20	6640.20	0.49		



**Job No:** 23-53-26729

Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

 Sounding ID:
 SCPT23-B-332

 Date:
 28-Oct-2023

SCPTu POISSON'S RATIO RESULTS						
Depth From (ft)	Depth To (ft)	Vs Interval Velocity (ft/s)	Vp Interval Velocity (ft/s)	Poisson's Ratio		
4.13	9.15	692.20	2544.70	0.46		
9.15	14.24	1004.50	3149.80	0.44		

**Soil Behavior Type (SBT) Scatter Plots** 





Job No: 23-53-26729 Date: 2023-10-25 12:03

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-004 Cone: 604:T1500F15U35

Cemented Sand

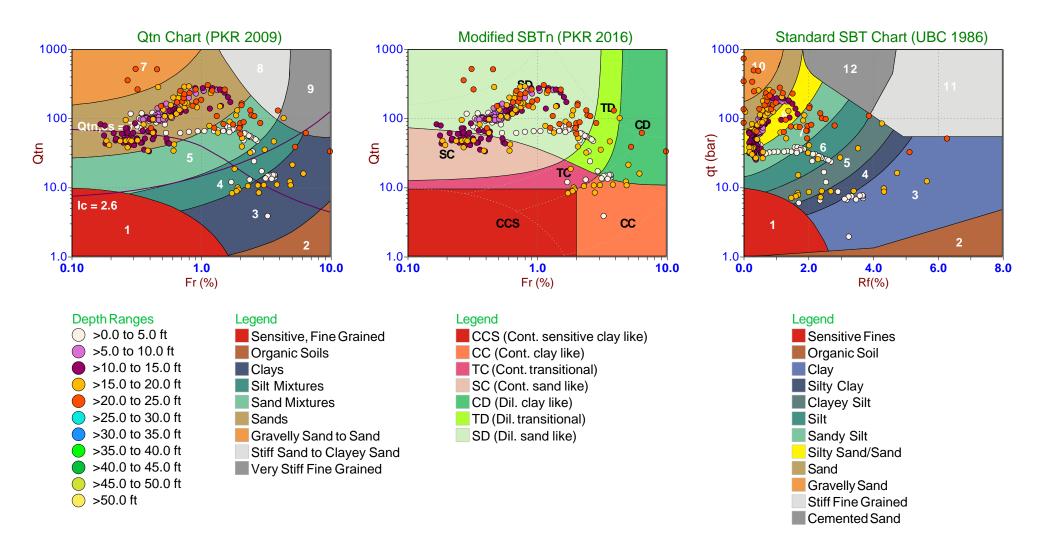
Qtn Chart (PKR 2009) Modified SBTn (PKR 2016) Standard SBT Chart (UBC 1986) 1000 1000 1000 9 TD 100-100-100 CD qt (bar) Qtu Qtu 10.0-10.0-10.0 Ic = 2.6°cc **CCS** 2 1.0+ 0.0 1.0 **0.10** 1.0 **0.10** 1.0 1.0 10.0 10.0 2.0 4.0 6.0 8.0 Fr (%) Fr (%) Rf(%) **Depth Ranges** Legend Legend Legend >0.0 to 5.0 ft Sensitive, Fine Grained Sensitive Fines CCS (Cont. sensitive clay like) >5.0 to 10.0 ft Organic Soils CC (Cont. clay like) Organic Soil >10.0 to 15.0 ft Clays TC (Cont. transitional) Clay >15.0 to 20.0 ft Silt Mixtures SC (Cont. sand like) Silty Clay >20.0 to 25.0 ft Sand Mixtures CD (Dil. clay like) Clayey Silt >25.0 to 30.0 ft Sands TD (Dil. transitional) Silt >30.0 to 35.0 ft Gravelly Sand to Sand SD (Dil. sand like) Sandy Silt >35.0 to 40.0 ft Silty Sand/Sand Stiff Sand to Clayey Sand >40.0 to 45.0 ft Very Stiff Fine Grained Sand >45.0 to 50.0 ft Gravelly Sand >50.0 ft Stiff Fine Grained



Job No: 23-53-26729 Date: 2023-10-25 12:43

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-006 Cone: 604:T1500F15U35

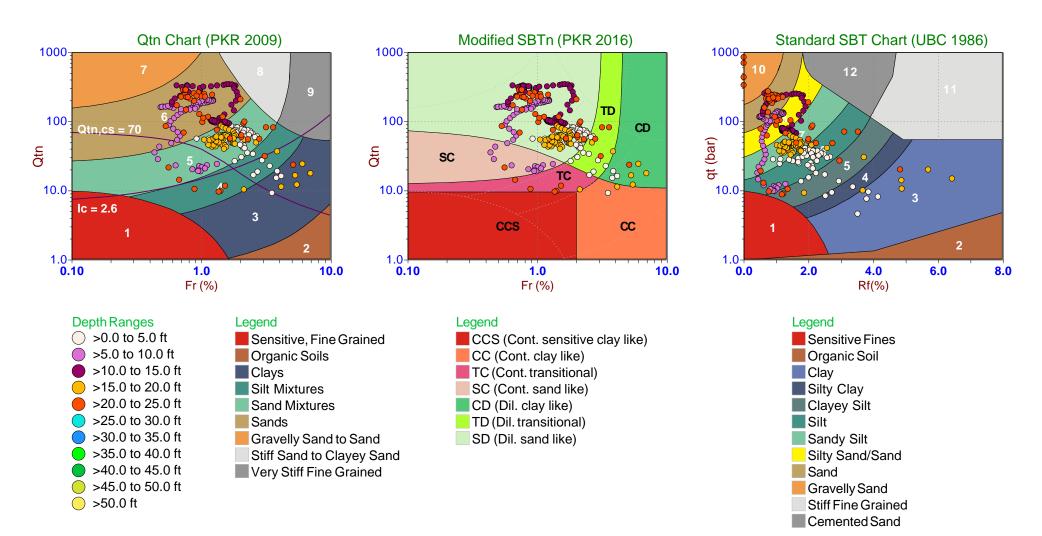




Job No: 23-53-26729 Date: 2023-10-25 10:45

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-008 Cone: 604:T1500F15U35

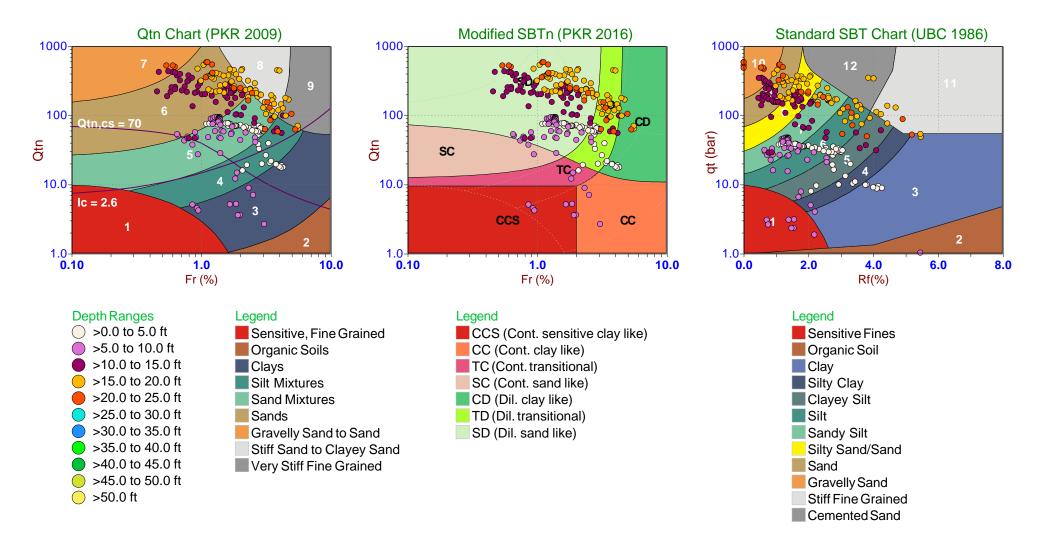




Job No: 23-53-26729 Date: 2023-10-25 15:20

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-014 Cone: 604:T1500F15U35

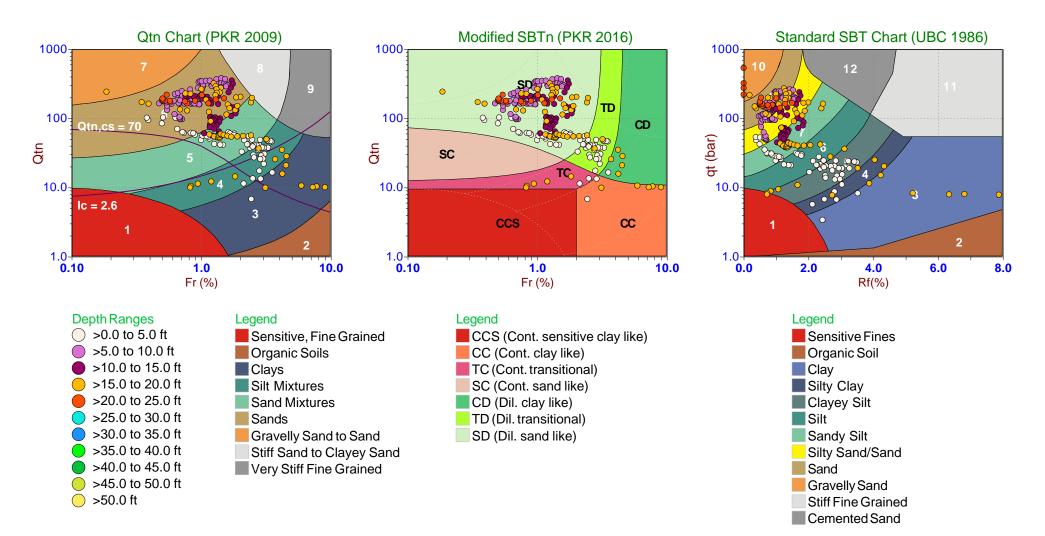




Job No: 23-53-26729 Date: 2023-10-25 11:24

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-016 Cone: 604:T1500F15U35

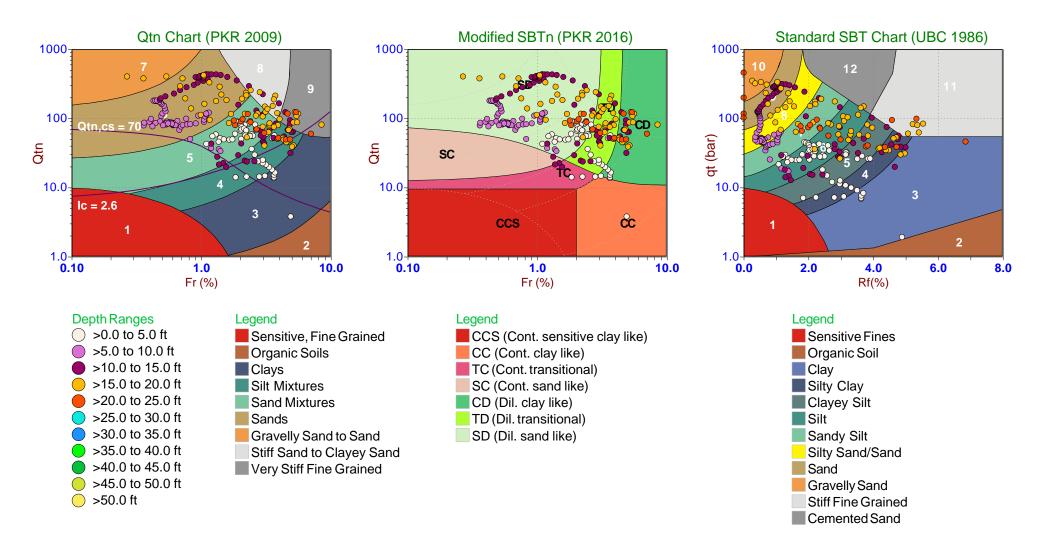




Job No: 23-53-26729 Date: 2023-10-25 09:58

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-021 Cone: 604:T1500F15U35

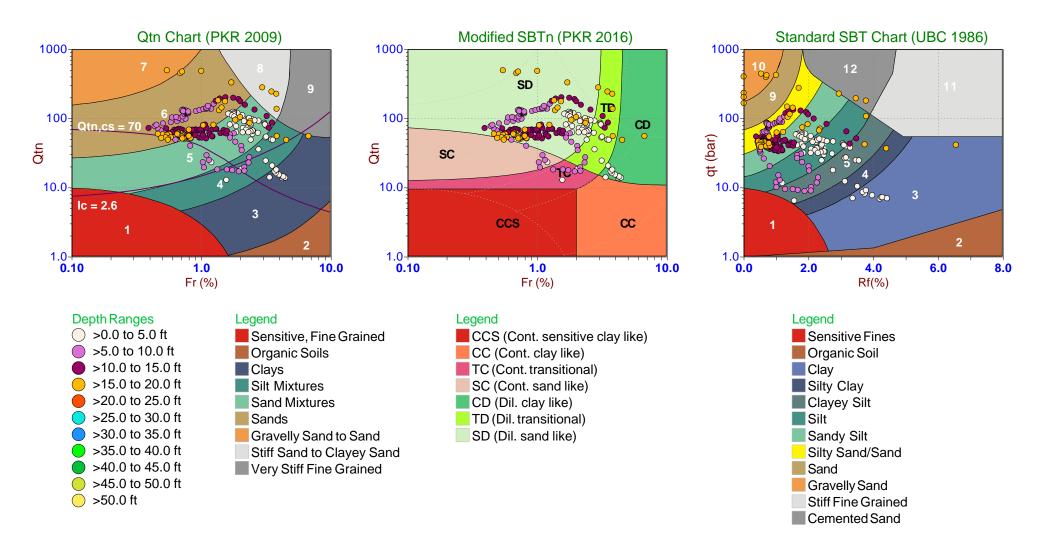




Job No: 23-53-26729 Date: 2023-10-25 14:36

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-022 Cone: 604:T1500F15U35

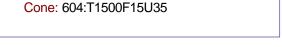


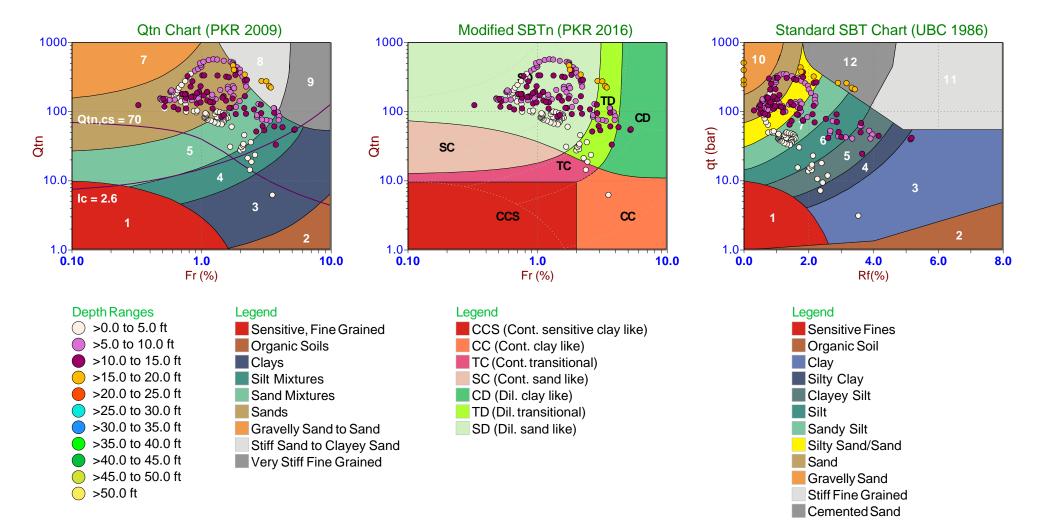


Job No: 23-53-26729 Date: 2023-10-24 13:10

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-060 Cone: 604:T1500F15U35



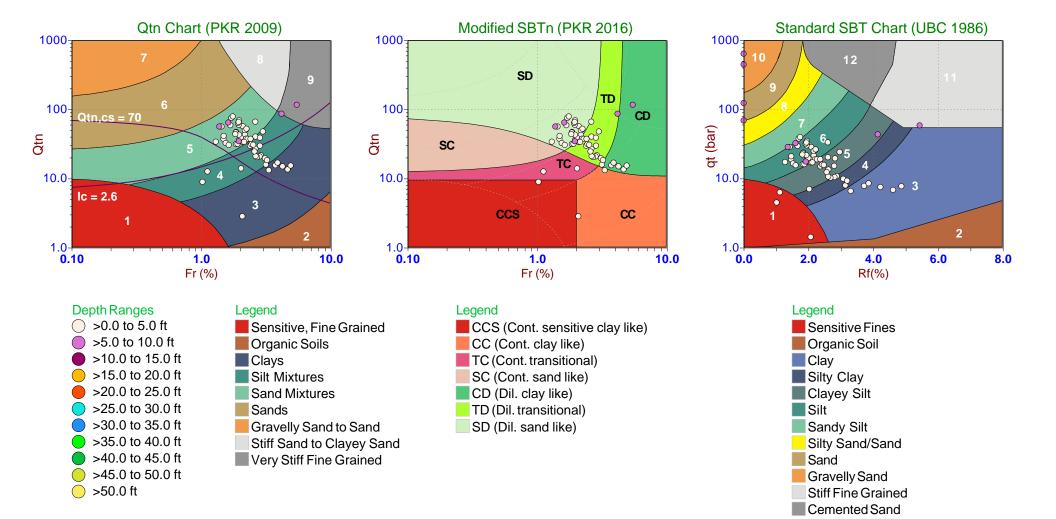




Job No: 23-53-26729 Date: 2023-10-23 09:05

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064
Cope: 604:T1500F15U35

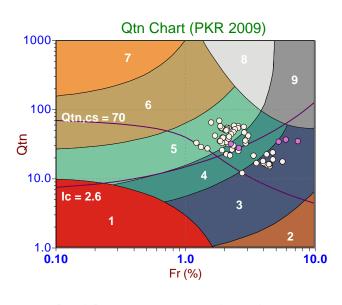


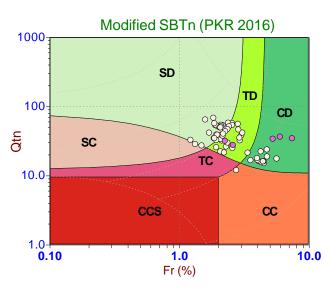


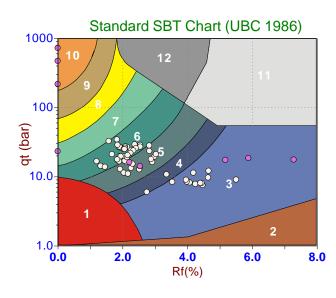
Job No: 23-53-26729 Date: 2023-10-23 09:29

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-064A Cone: 604:T1500F15U35







#### **Depth Ranges** >0.0 to 5.0 ft >5.0 to 10.0 ft >10.0 to 15.0 ft >15.0 to 20.0 ft >20.0 to 25.0 ft >25.0 to 30.0 ft >30.0 to 35.0 ft >35.0 to 40.0 ft >40.0 to 45.0 ft >45.0 to 50.0 ft >50.0 ft





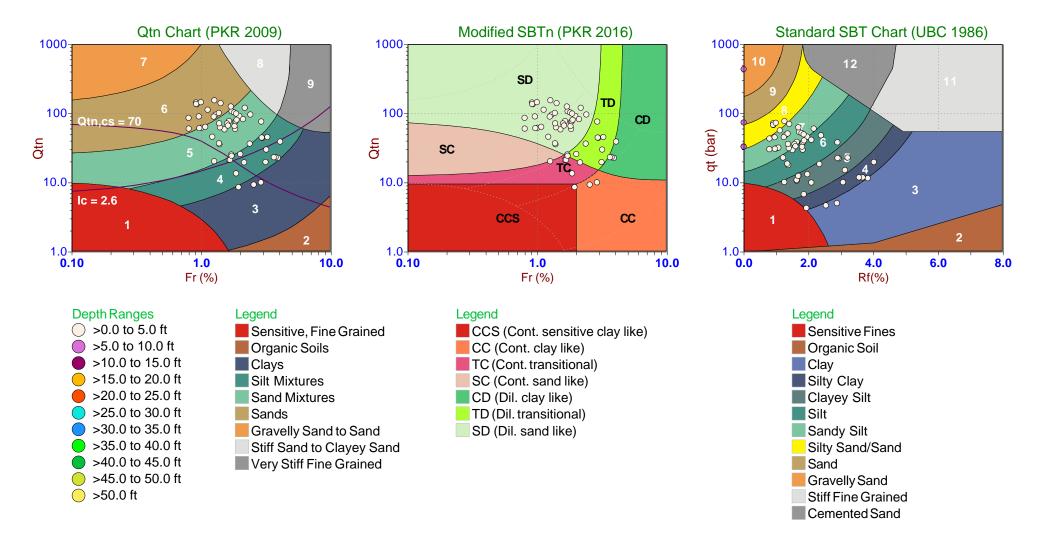




Job No: 23-53-26729 Date: 2023-10-23 07:02

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066

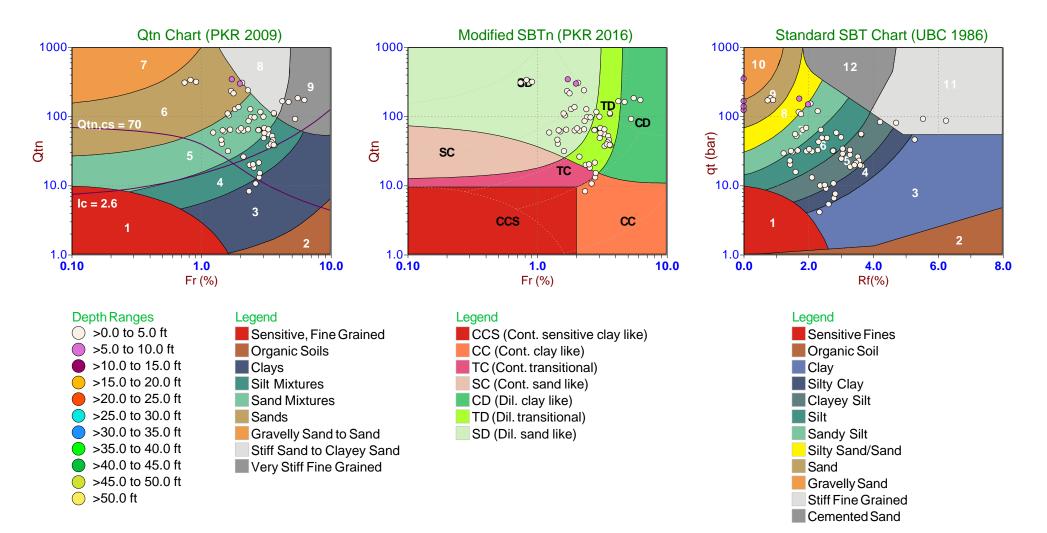




Job No: 23-53-26729 Date: 2023-10-23 08:36

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-066A Cone: 604:T1500F15U35

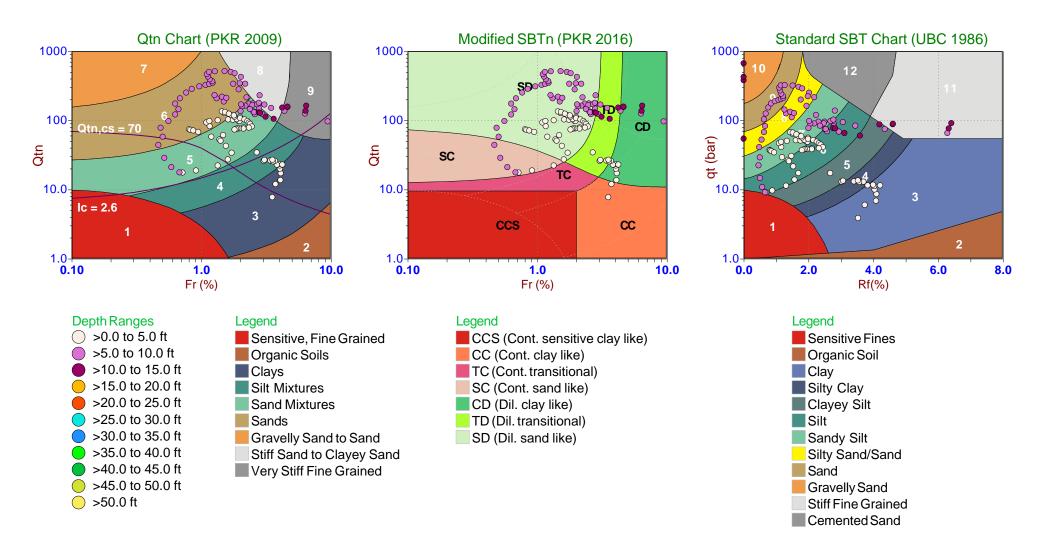




Job No: 23-53-26729 Date: 2023-10-24 13:47

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-070 Cone: 604:T1500F15U35

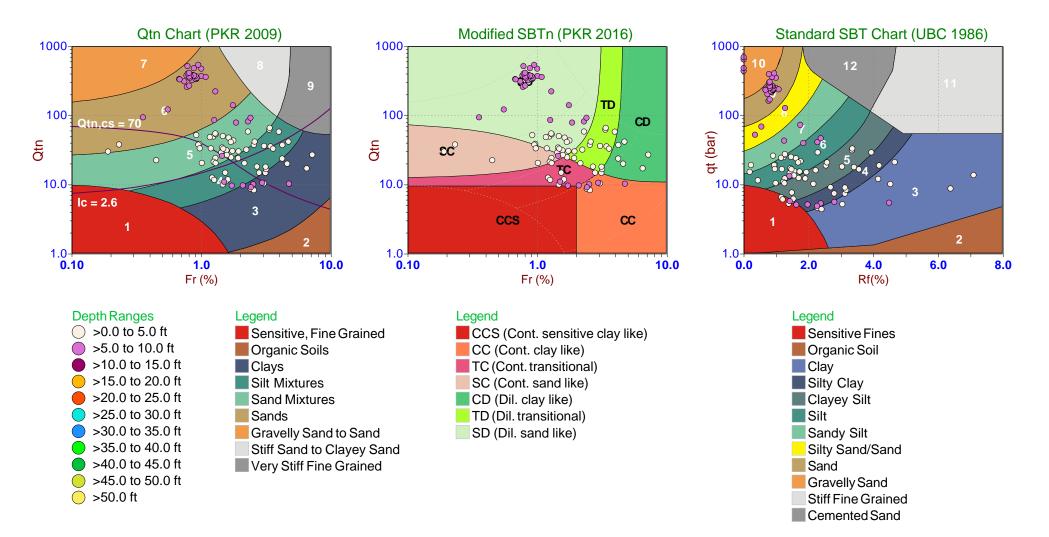




Job No: 23-53-26729 Date: 2023-10-23 10:47

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-073 Cone: 604:T1500F15U35



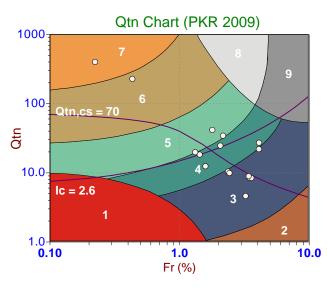


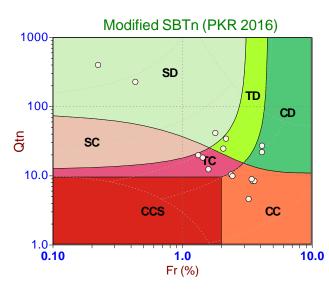
Job No: 23-53-26729 Date: 2023-10-23 09:58

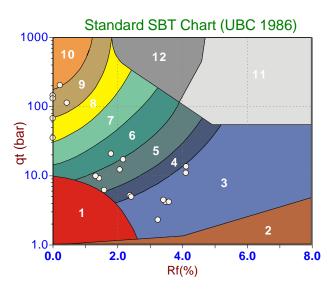
Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074

Cone: 604:T1500F15U35







#### **Depth Ranges** >0.0 to 5.0 ft >5.0 to 10.0 ft >10.0 to 15.0 ft >15.0 to 20.0 ft >20.0 to 25.0 ft >25.0 to 30.0 ft >30.0 to 35.0 ft >35.0 to 40.0 ft >40.0 to 45.0 ft >45.0 to 50.0 ft >50.0 ft





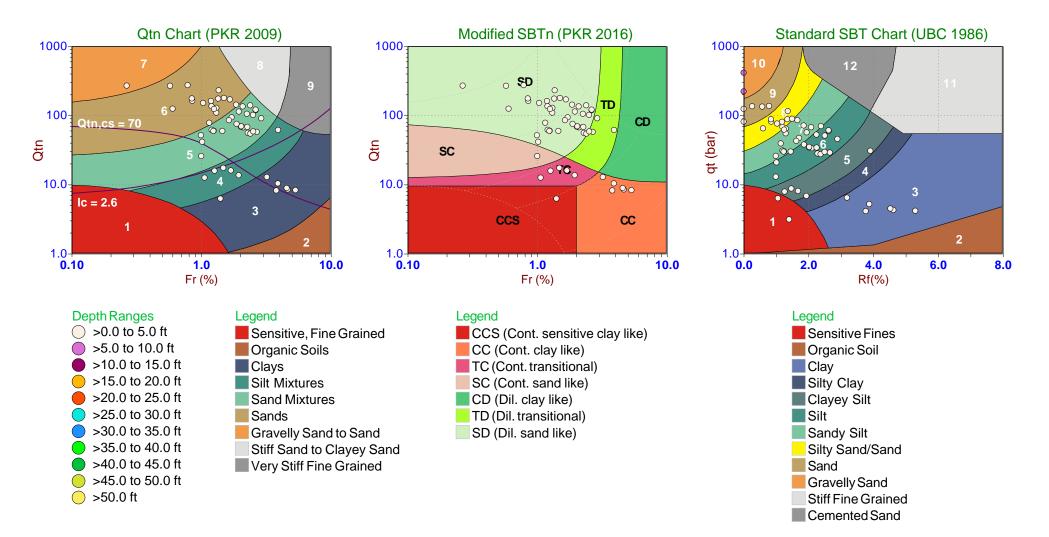




Job No: 23-53-26729 Date: 2023-10-23 10:17

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-074A Cone: 604:T1500F15U35

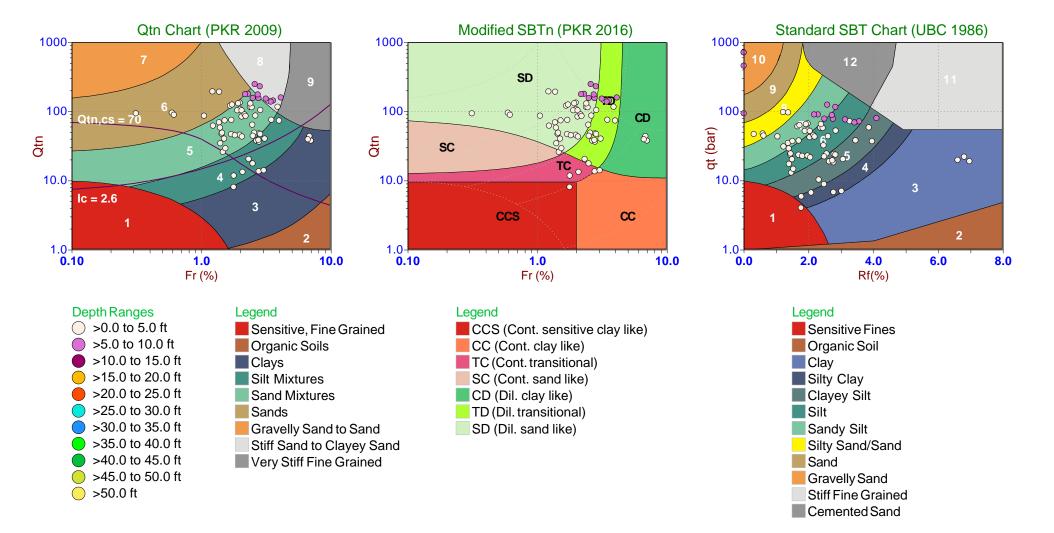




Job No: 23-53-26729 Date: 2023-10-23 11:10

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-075

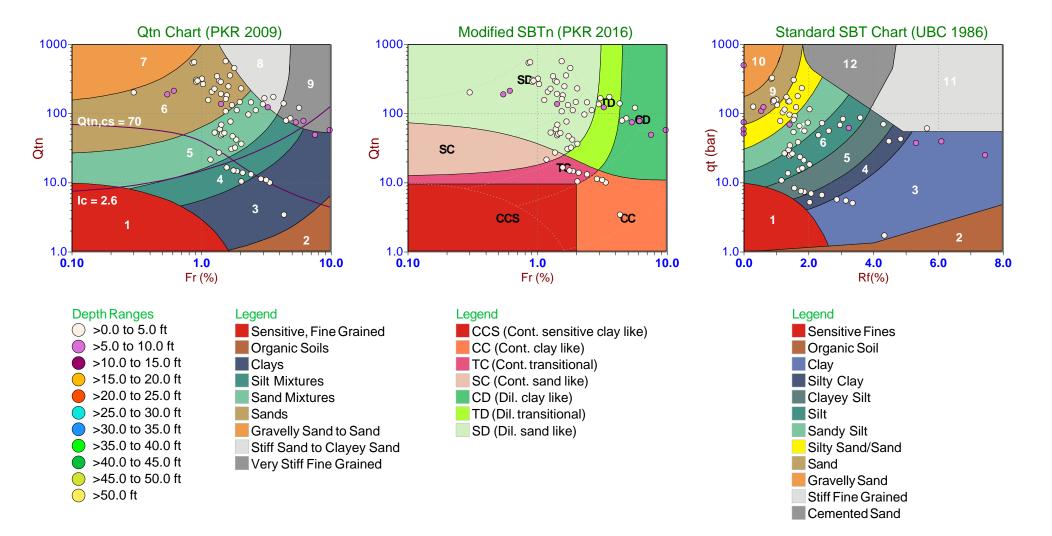




Job No: 23-53-26729 Date: 2023-10-23 11:37

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-076

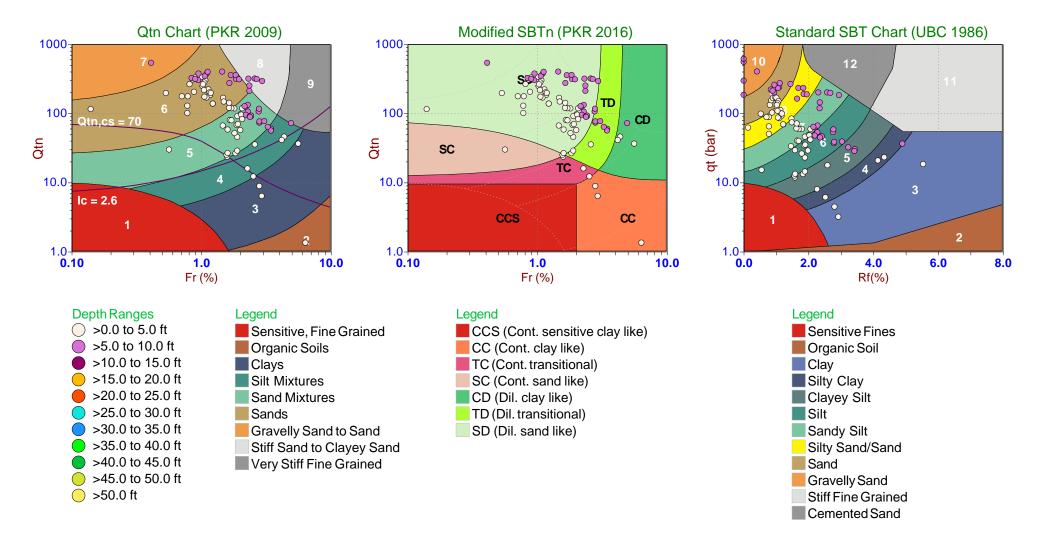




Job No: 23-53-26729 Date: 2023-10-23 12:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-077

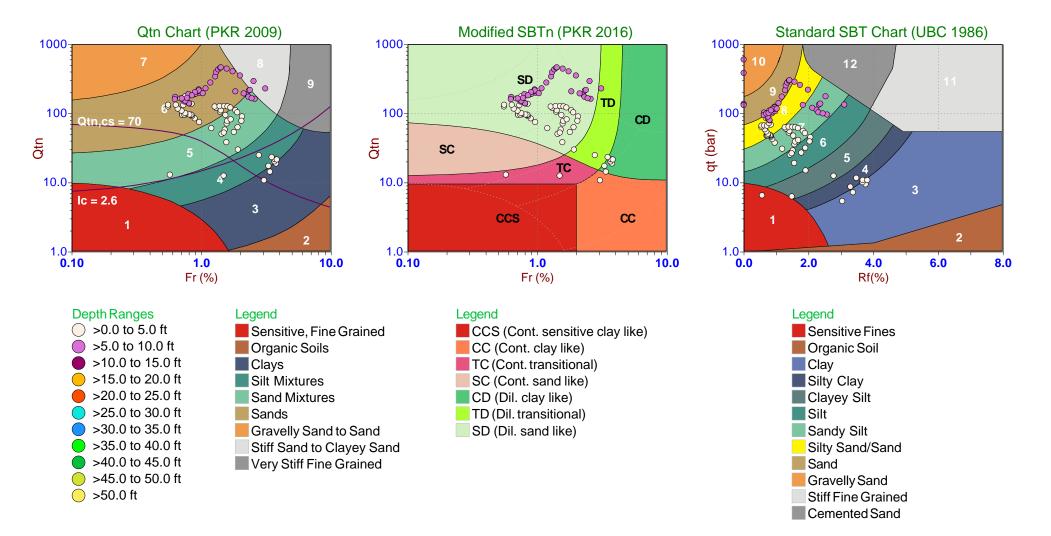




Job No: 23-53-26729 Date: 2023-10-25 07:29

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-078 Cone: 604:T1500F15U35

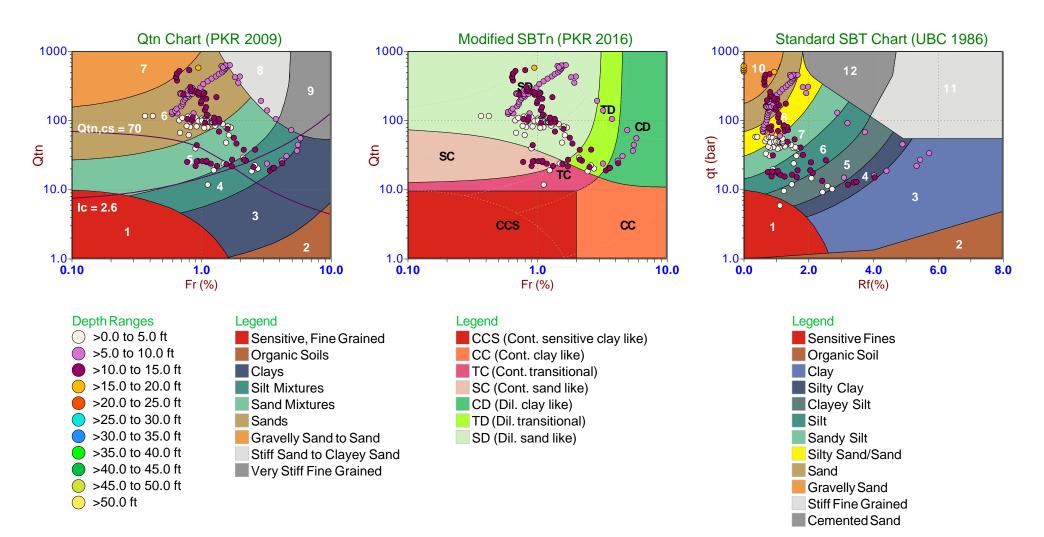




Job No: 23-53-26729 Date: 2023-10-24 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-080 Cone: 604:T1500F15U35

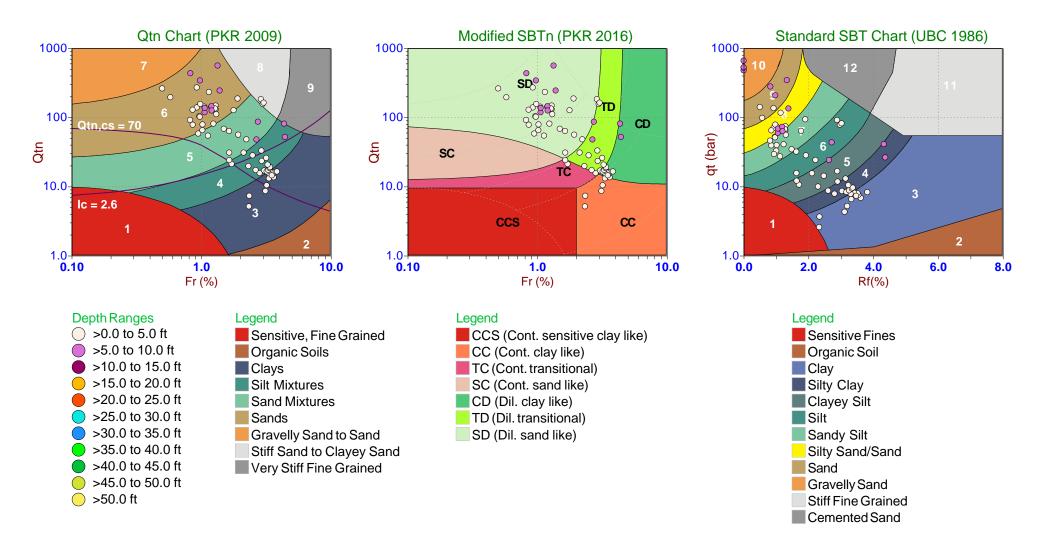




Job No: 23-53-26729 Date: 2023-10-23 13:38

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-084

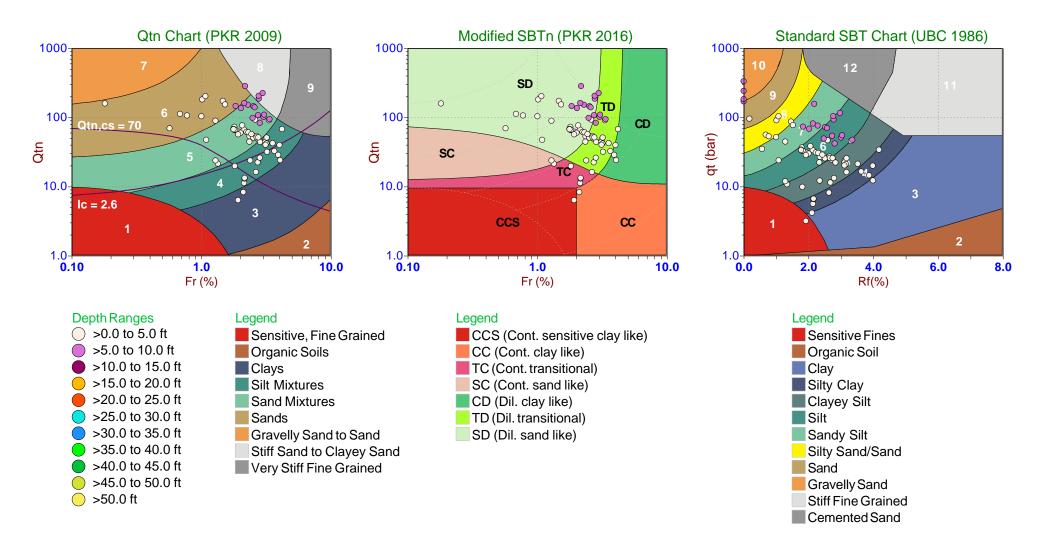




Job No: 23-53-26729 Date: 2023-10-23 12:54

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-086 Cone: 604:T1500F15U35

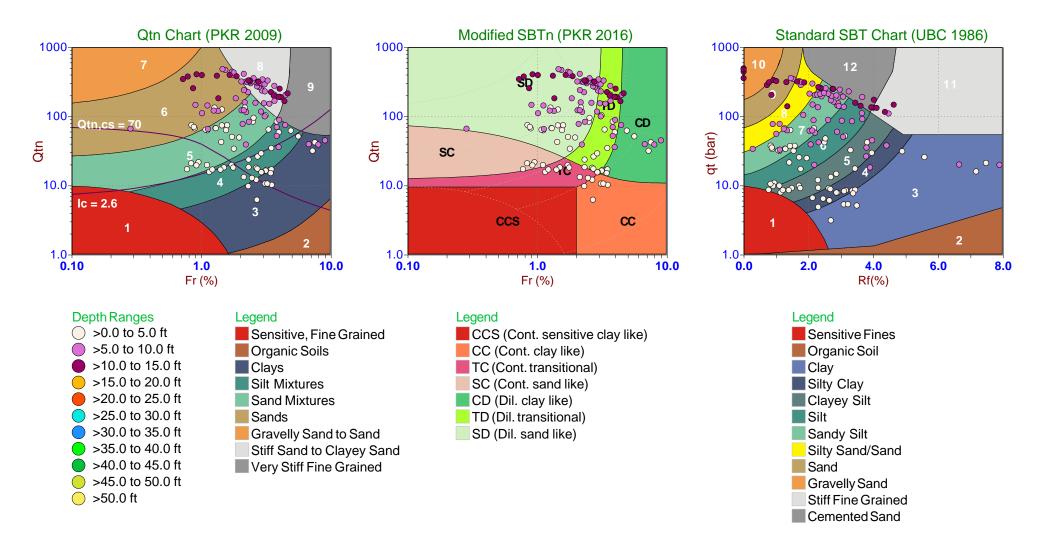




Job No: 23-53-26729 Date: 2023-10-23 14:25

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-092 Cone: 604:T1500F15U35

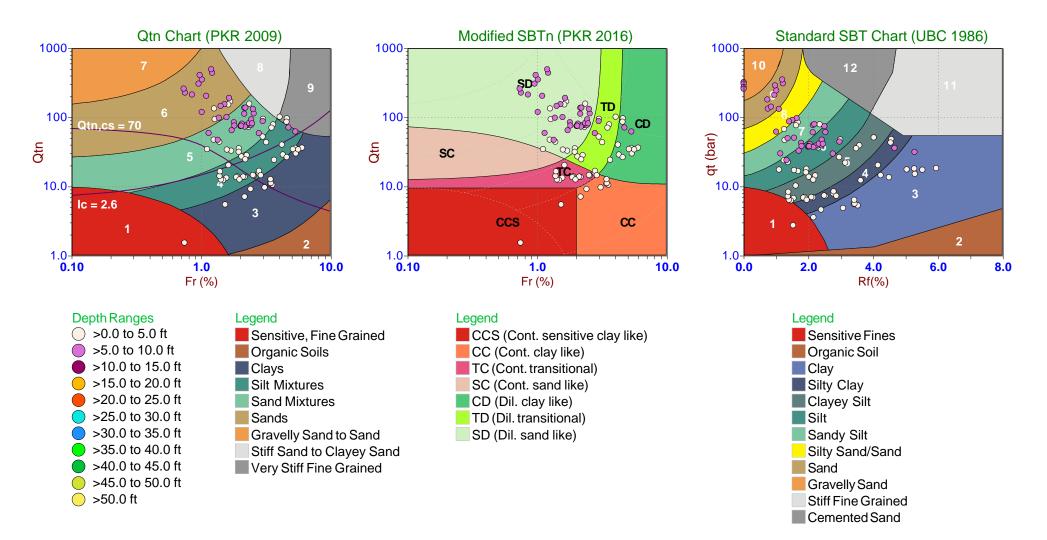




Job No: 23-53-26729 Date: 2023-10-23 14:11

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-093



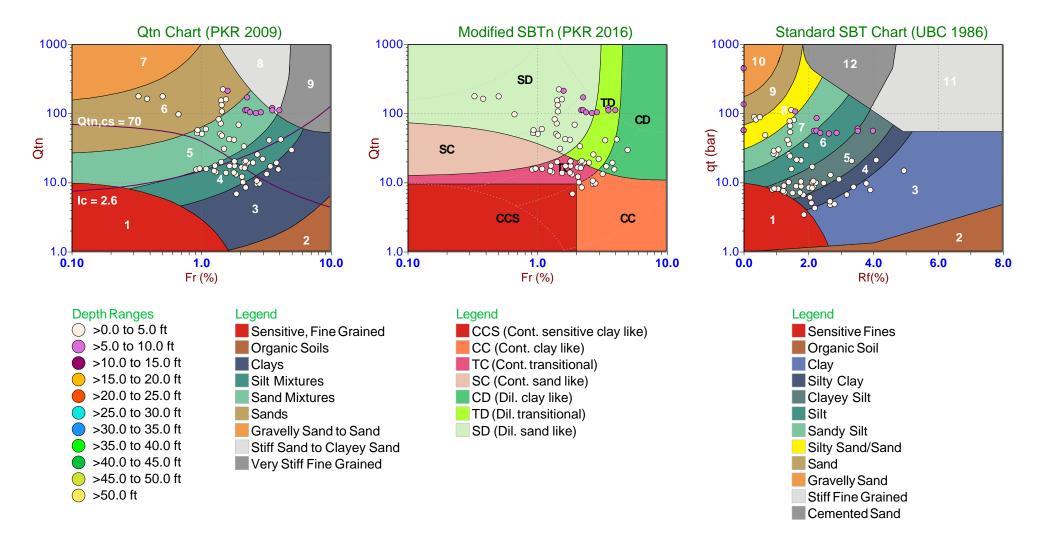


Job No: 23-53-26729 Date: 2023-10-24 07:28

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-095 Cone: 604:T1500F15U35

:28 Cone: 604:T1500F15U35 on Plant, Clay, NY

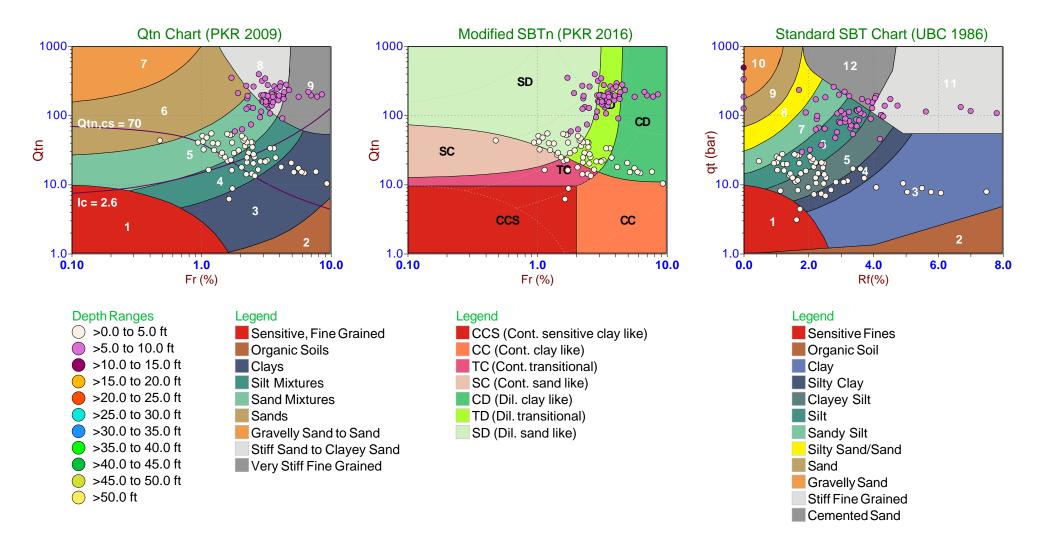




Job No: 23-53-26729 Date: 2023-10-23 12:45

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-097 Cone: 604:T1500F15U35

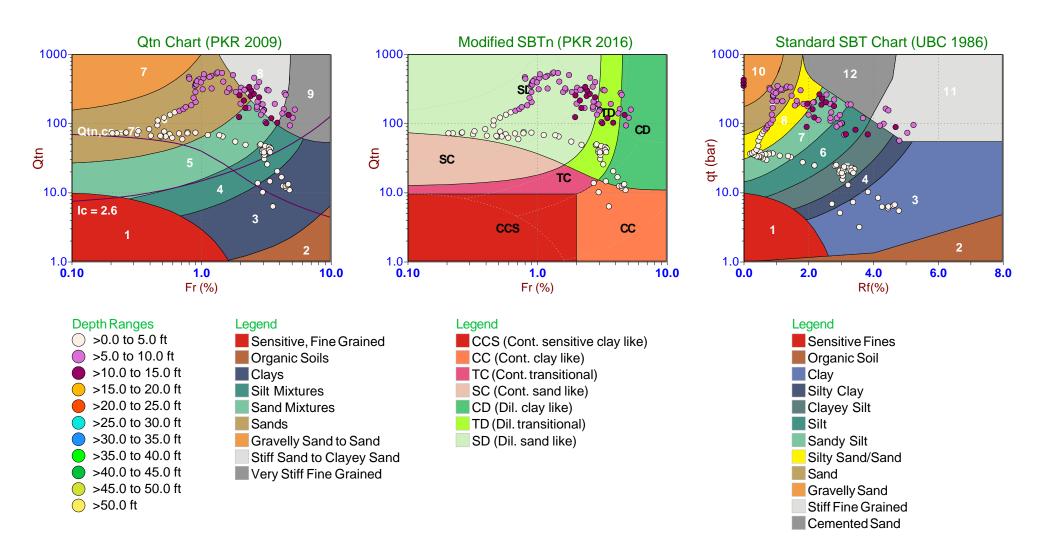




Job No: 23-53-26729 Date: 2023-10-25 08:00

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-098 Cone: 604:T1500F15U35

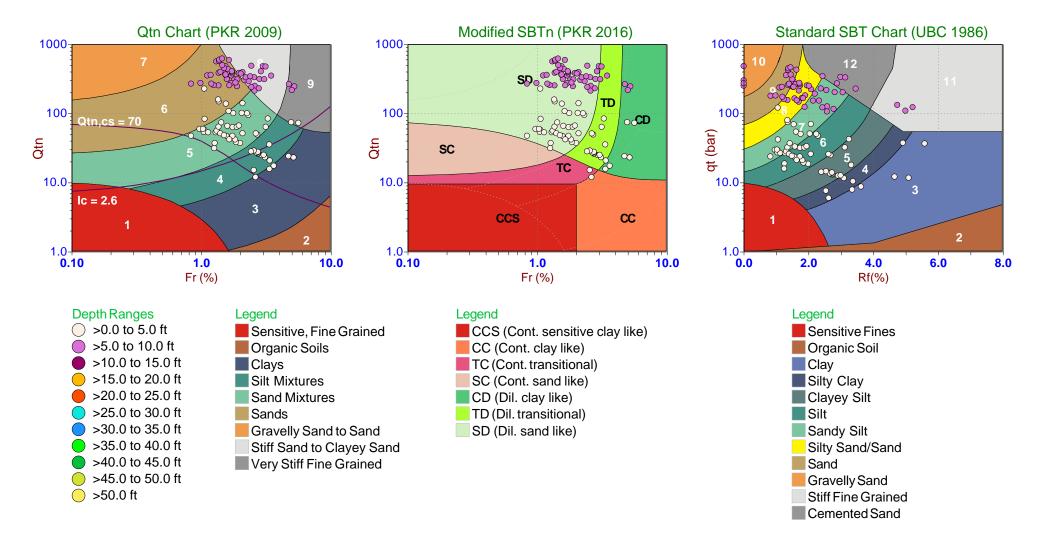




Job No: 23-53-26729 Date: 2023-10-24 11:28

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-102





Job No: 23-53-26729 Date: 2023-10-24 12:09

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-104 Cone: 604:T1500F15U35

Cemented Sand

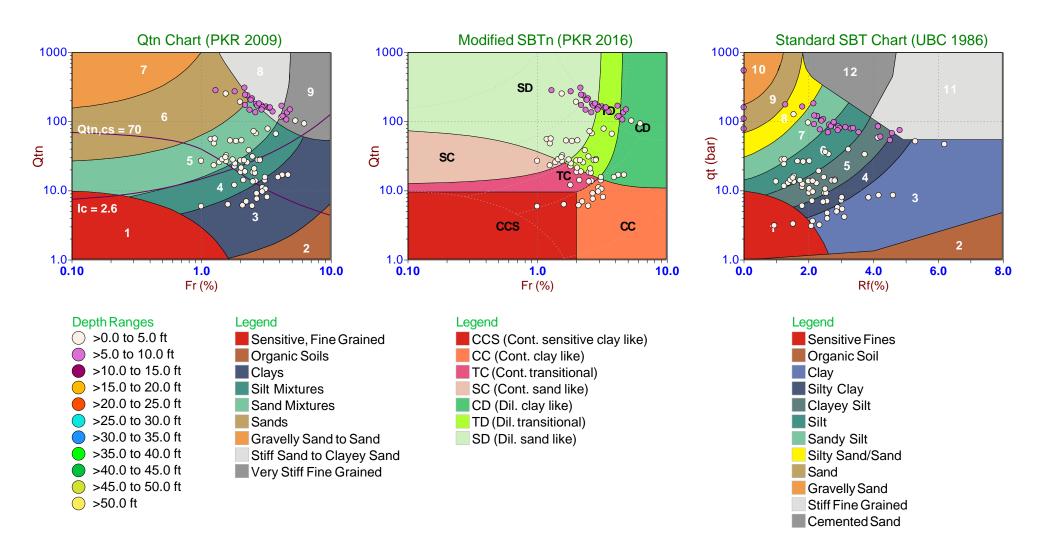
Qtn Chart (PKR 2009) Modified SBTn (PKR 2016) Standard SBT Chart (UBC 1986) 1000 1000-1000-SD TD 100-100-100-CD Qtn,cs = 70qt (bar) Qtu Qtn SC TC 10.0-10.0-10.0 Ic = 2.63 **CCS** CC 1 2 1.0+ 0.0 1.0 **0.10** 1.0 **0.10** 1.0 1.0 10.0 10.0 2.0 4.0 6.0 8.0 Fr (%) Fr (%) Rf(%) **Depth Ranges** Legend Legend Legend >0.0 to 5.0 ft Sensitive, Fine Grained Sensitive Fines CCS (Cont. sensitive clay like) >5.0 to 10.0 ft Organic Soils CC (Cont. clay like) Organic Soil >10.0 to 15.0 ft Clays TC (Cont. transitional) Clav >15.0 to 20.0 ft Silt Mixtures SC (Cont. sand like) Silty Clay >20.0 to 25.0 ft Sand Mixtures CD (Dil. clay like) Clayey Silt >25.0 to 30.0 ft Sands TD (Dil. transitional) Silt >30.0 to 35.0 ft Gravelly Sand to Sand SD (Dil. sand like) Sandy Silt >35.0 to 40.0 ft Silty Sand/Sand Stiff Sand to Clayey Sand >40.0 to 45.0 ft Very Stiff Fine Grained Sand >45.0 to 50.0 ft Gravelly Sand >50.0 ft Stiff Fine Grained



Job No: 23-53-26729 Date: 2023-10-24 08:37

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-106 Cone: 604:T1500F15U35

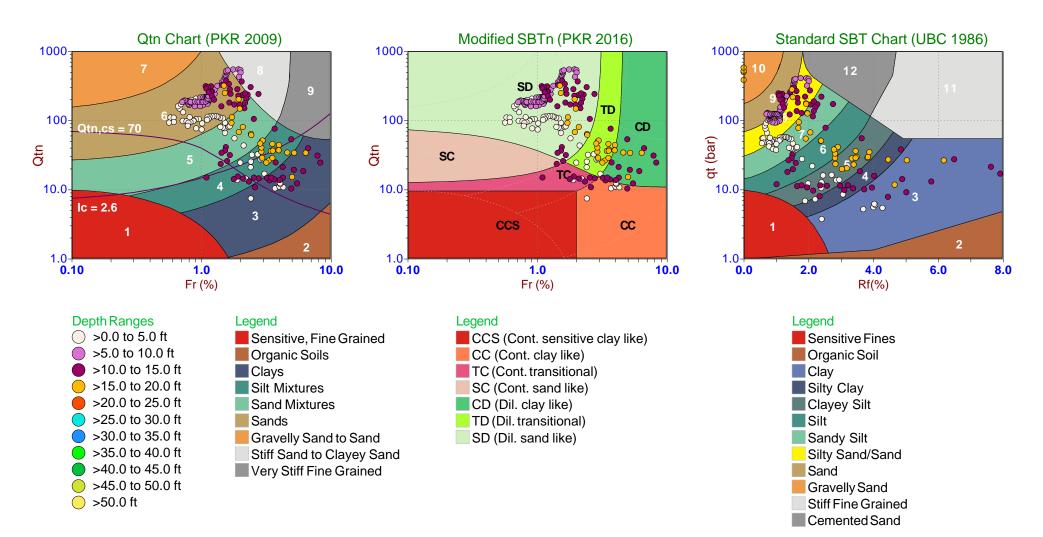




Job No: 23-53-26729 Date: 2023-10-25 08:35

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-107 Cone: 604:T1500F15U35

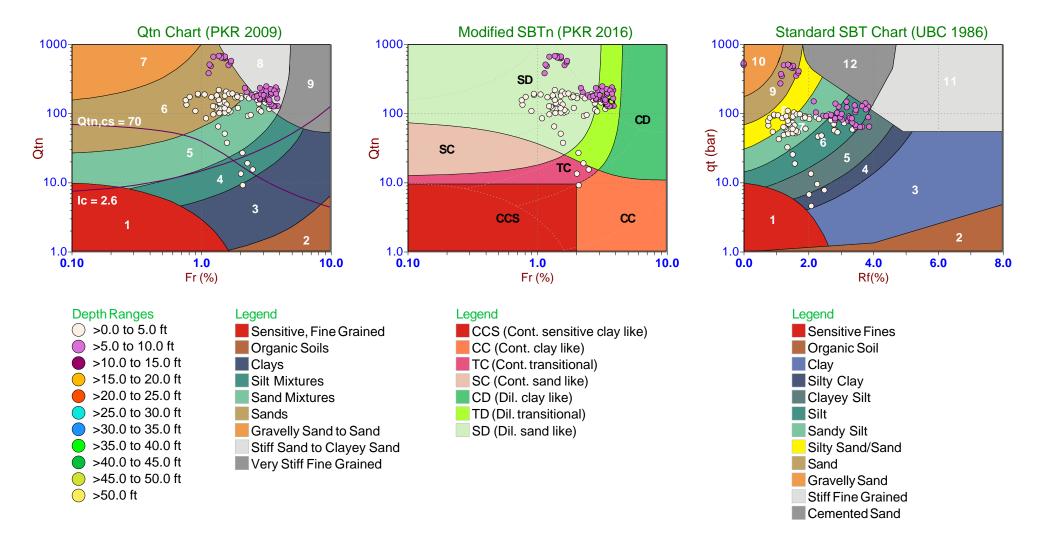




Job No: 23-53-26729 Date: 2023-10-24 10:50

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-112 Cone: 604:T1500F15U35



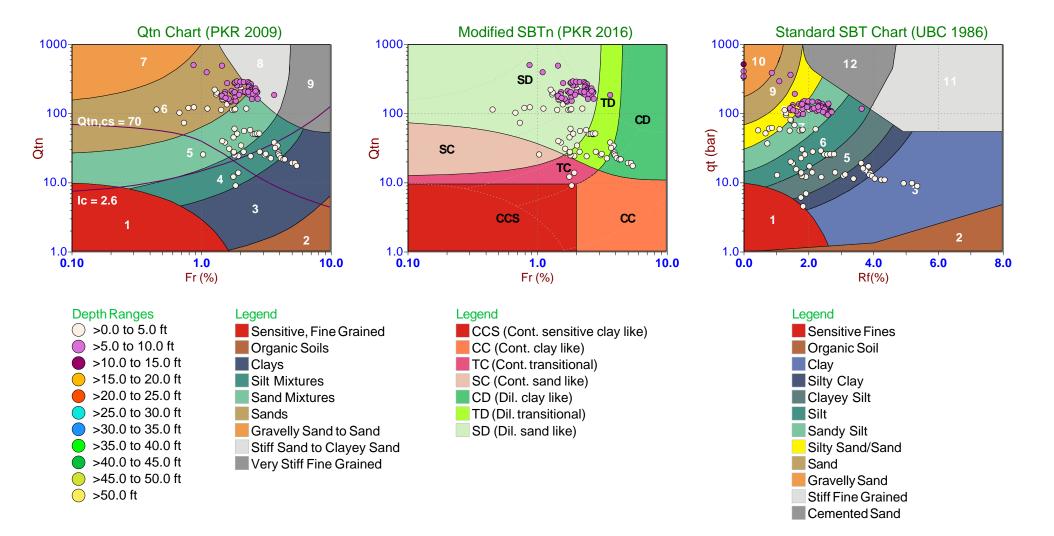


Job No: 23-53-26729 Date: 2023-10-24 09:36

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-113

Cone: 604:T1500F15U35



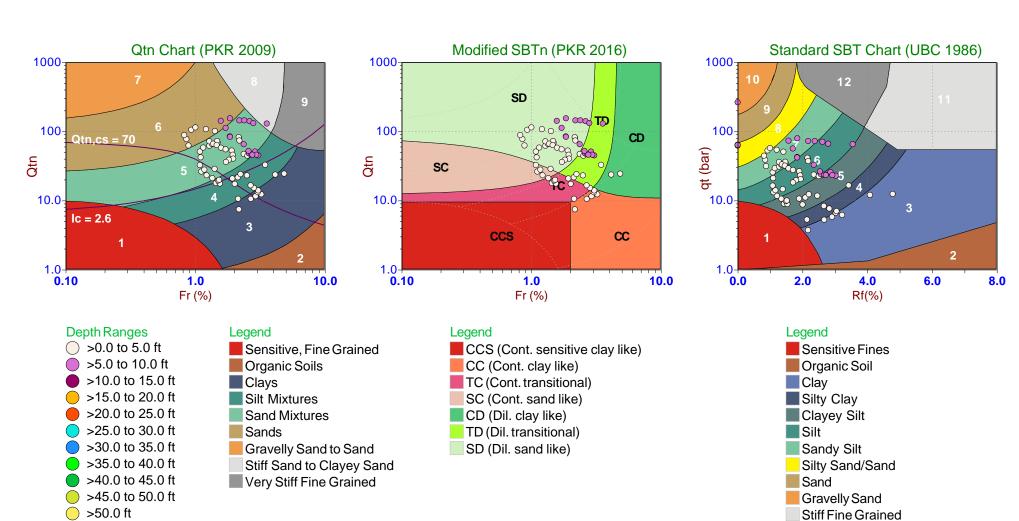


Job No: 23-53-26729 Date: 2023-10-24 09:03

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-115 Cone: 604:T1500F15U35

Cemented Sand

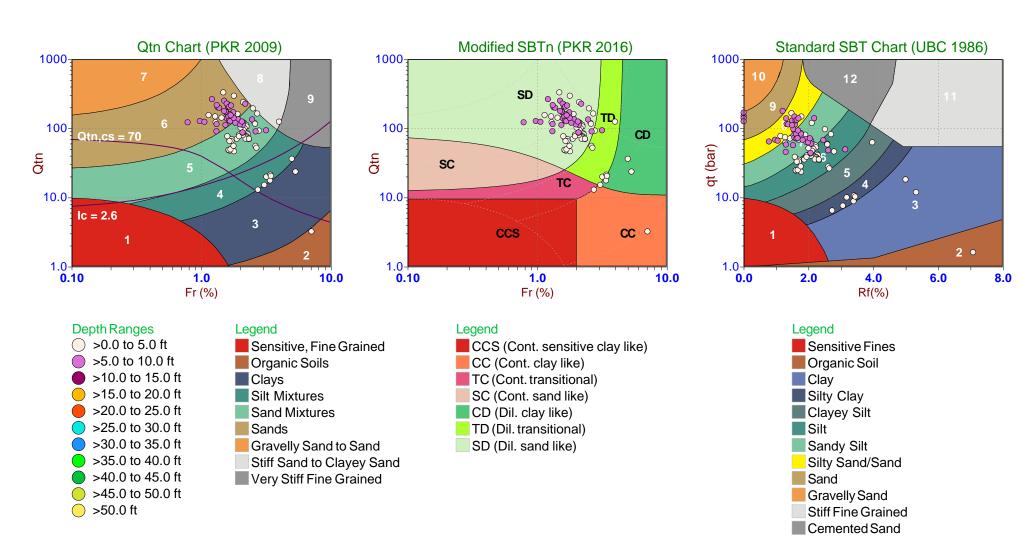




Job No: 23-53-26729 Date: 2023-10-24 10:14

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-120 Cone: 604:T1500F15U35

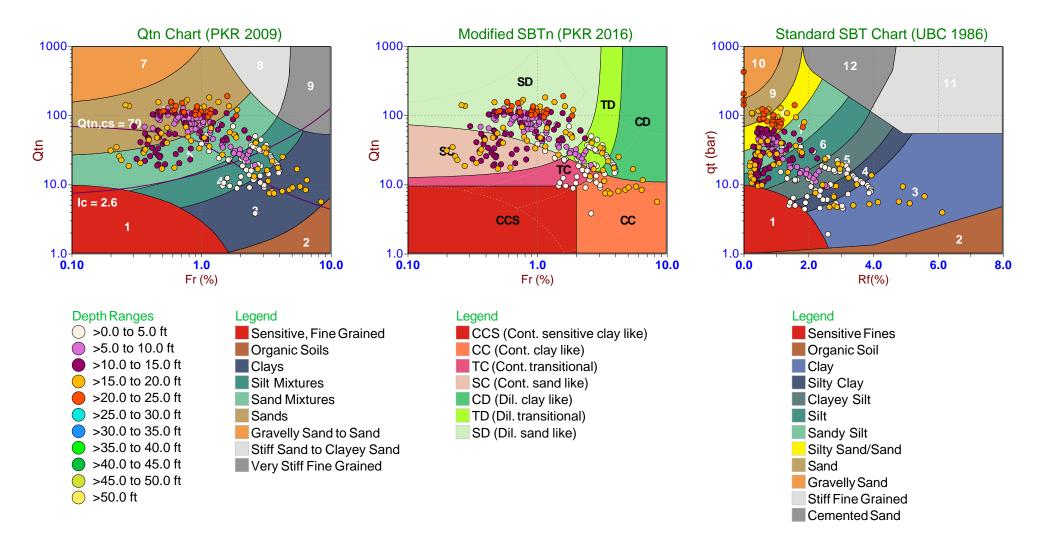




Job No: 23-53-26729 Date: 2023-10-27 14:56

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-208 Cone: 606:T1500F15U35

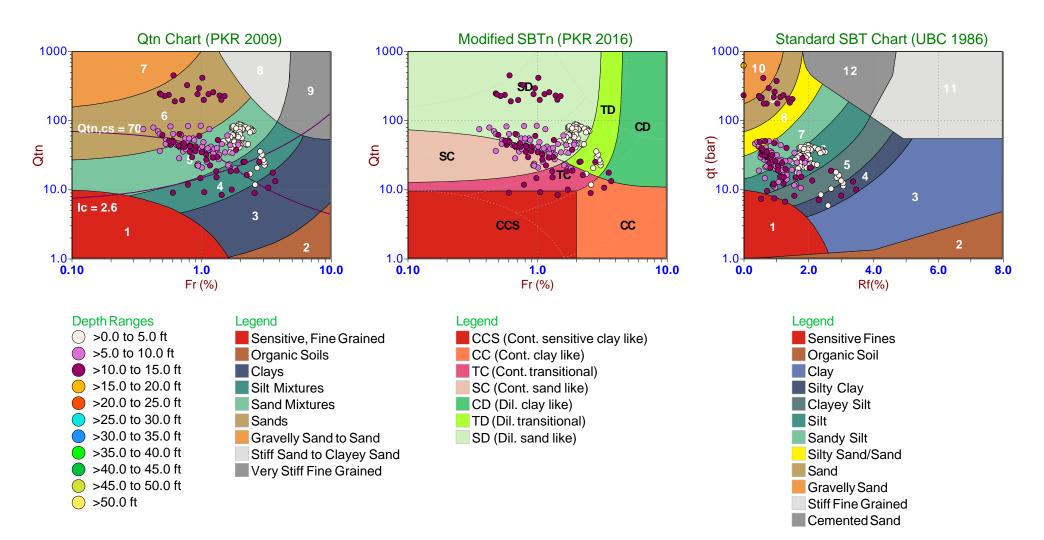




Job No: 23-53-26729 Date: 2023-10-27 10:44

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-221 Cone: 606:T1500F15U35

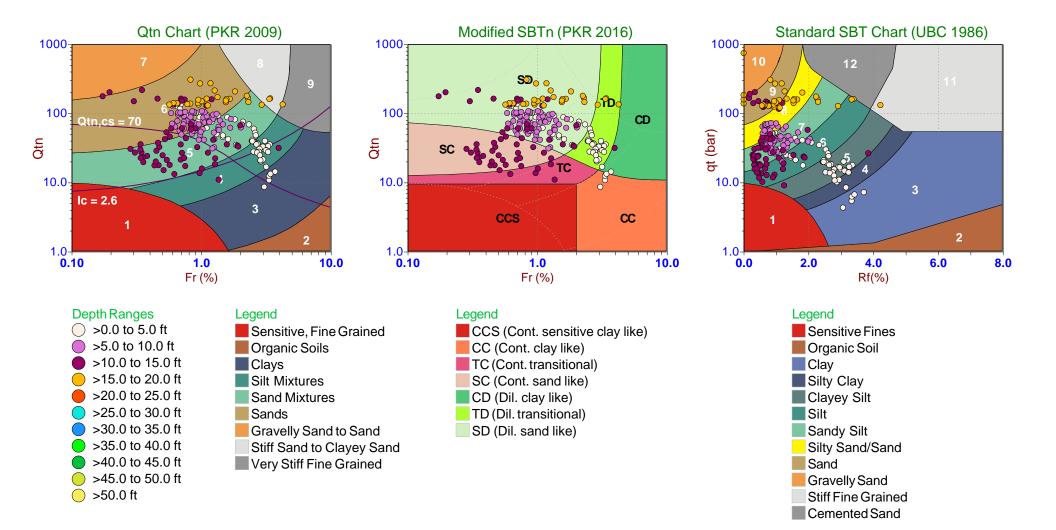




Job No: 23-53-26729 Date: 2023-10-27 11:16

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-222 Cone: 606:T1500F15U35

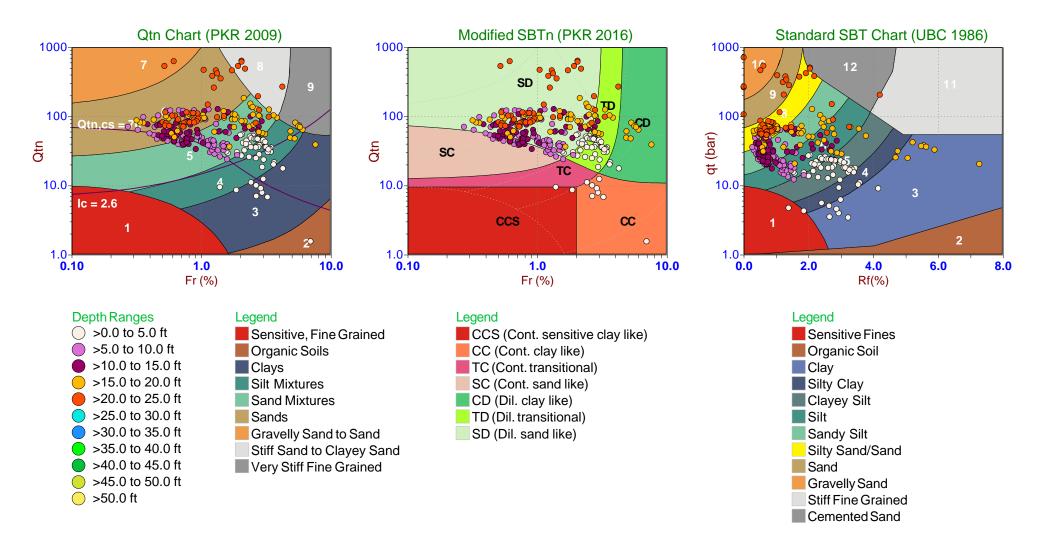




Job No: 23-53-26729 Date: 2023-10-27 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-225 Cone: 606:T1500F15U35

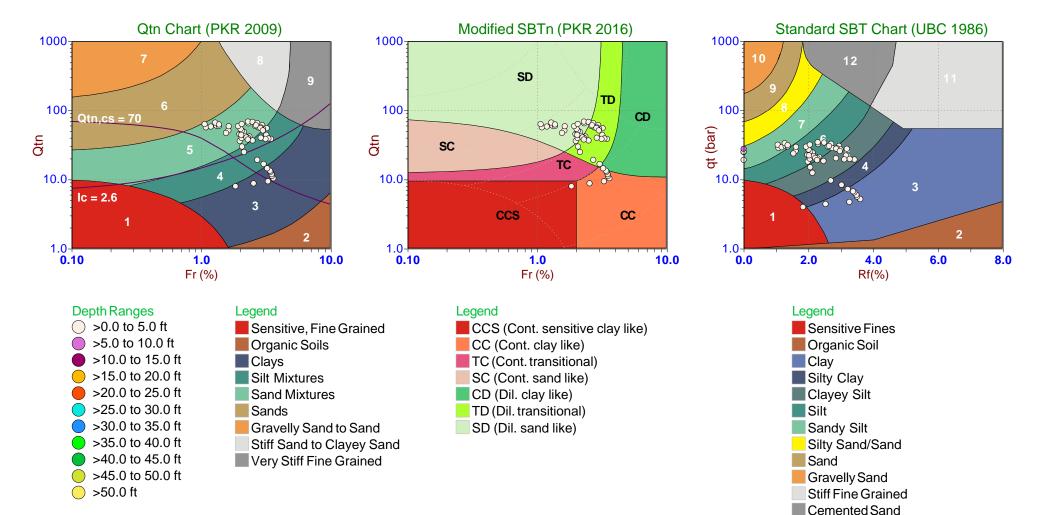




Job No: 23-53-26729 Date: 2023-10-27 12:08

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228 Cone: 606:T1500F15U35

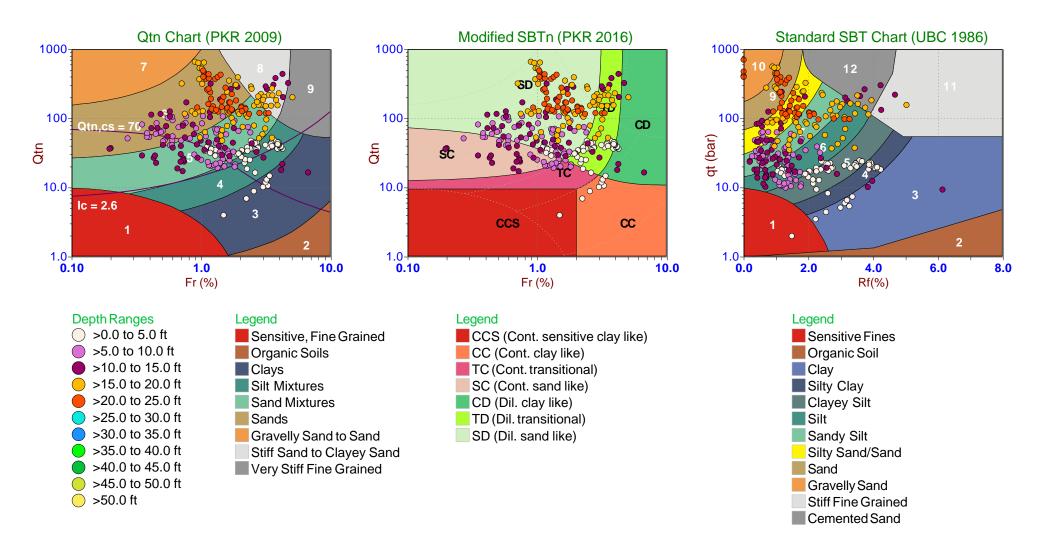




Job No: 23-53-26729 Date: 2023-10-27 13:08

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-228A Cone: 606:T1500F15U35

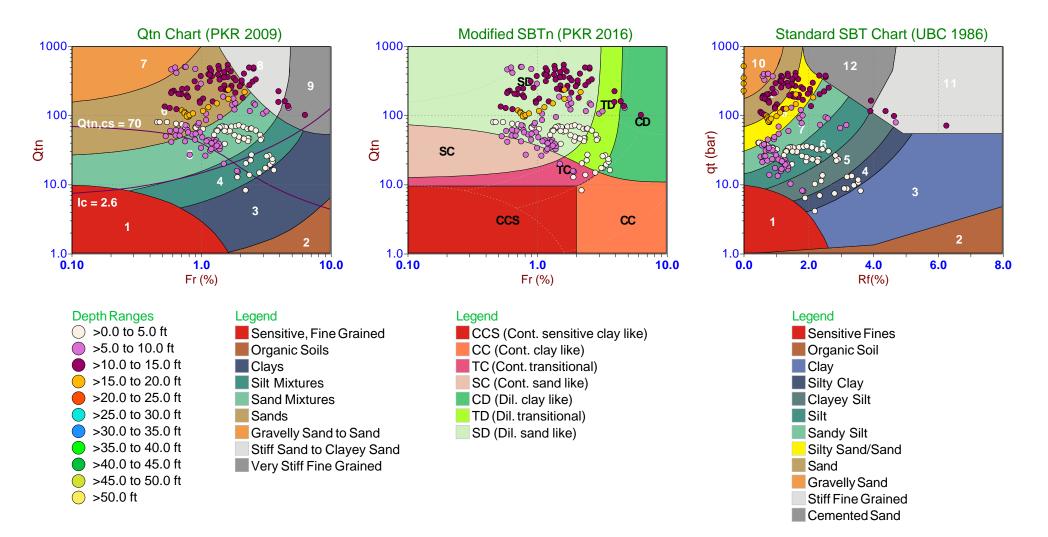




Job No: 23-53-26729 Date: 2023-10-27 09:53

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-237 Cone: 606:T1500F15U35





Job No: 23-53-26729 Date: 2023-10-27 10:16

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-238 Cone: 606:T1500F15U35

Cemented Sand

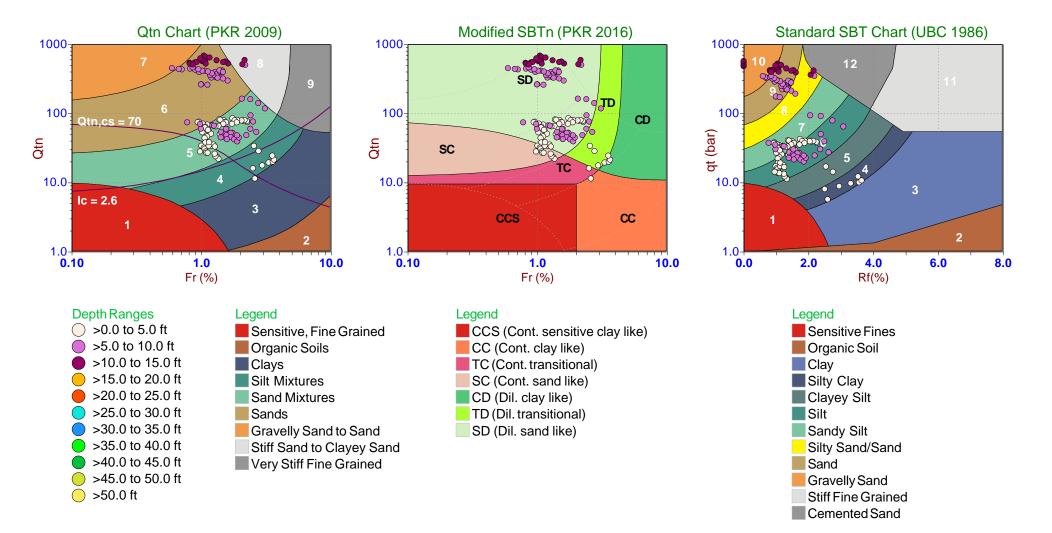
Qtn Chart (PKR 2009) Standard SBT Chart (UBC 1986) Modified SBTn (PKR 2016) 1000 1000-1000 100-100-100-CD Qtn,cs = 70qt (bar) Qtu Qtn SC 10.0-10.0-10.0 3 Ic = 2.63 **CCS** CC 2 1.0+ 0.0 1.0 **0.10** 1.0 **0.10** 1.0 1.0 2.0 10.0 10.0 4.0 6.0 8.0 Fr (%) Fr (%) Rf(%) **Depth Ranges** Legend Legend Legend >0.0 to 5.0 ft Sensitive, Fine Grained Sensitive Fines CCS (Cont. sensitive clay like) >5.0 to 10.0 ft Organic Soils CC (Cont. clay like) Organic Soil >10.0 to 15.0 ft Clays TC (Cont. transitional) Clay >15.0 to 20.0 ft Silt Mixtures SC (Cont. sand like) Silty Clay >20.0 to 25.0 ft Sand Mixtures CD (Dil. clay like) Clayey Silt >25.0 to 30.0 ft Sands TD (Dil. transitional) Silt >30.0 to 35.0 ft Gravelly Sand to Sand SD (Dil. sand like) Sandy Silt >35.0 to 40.0 ft Silty Sand/Sand Stiff Sand to Clayey Sand >40.0 to 45.0 ft Very Stiff Fine Grained Sand >45.0 to 50.0 ft Gravelly Sand >50.0 ft Stiff Fine Grained



Job No: 23-53-26729 Date: 2023-10-26 07:33

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-243 Cone: 604:T1500F15U35

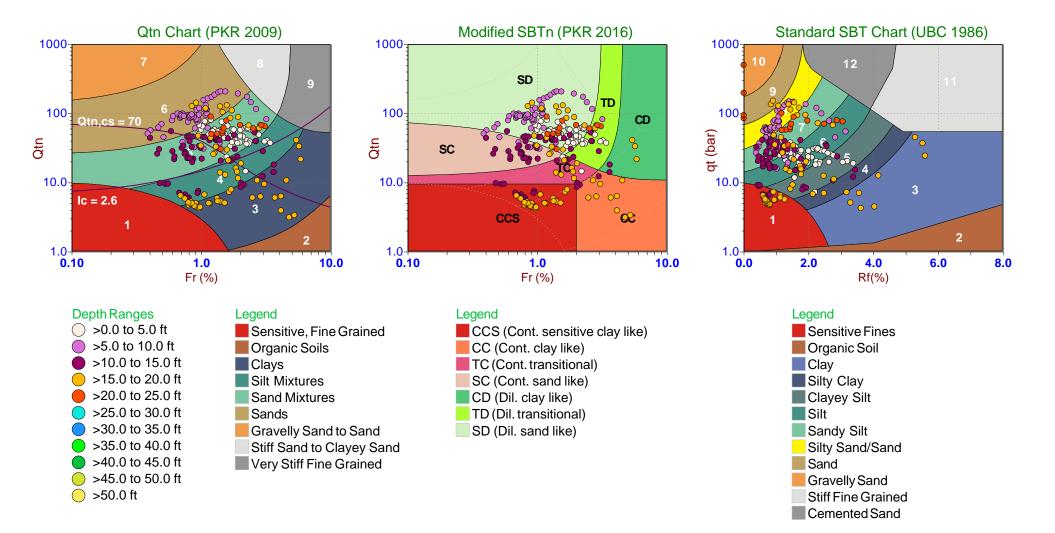




Job No: 23-53-26729 Date: 2023-10-26 09:50

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-244 Cone: 604:T1500F15U35

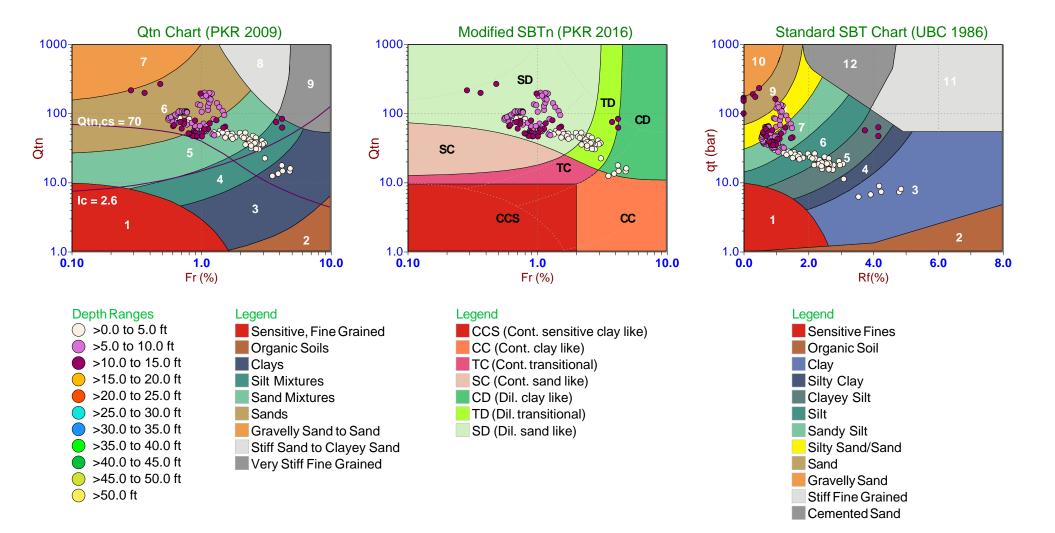




Job No: 23-53-26729 Date: 2023-10-26 11:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-246 Cone: 606:T1500F15U35

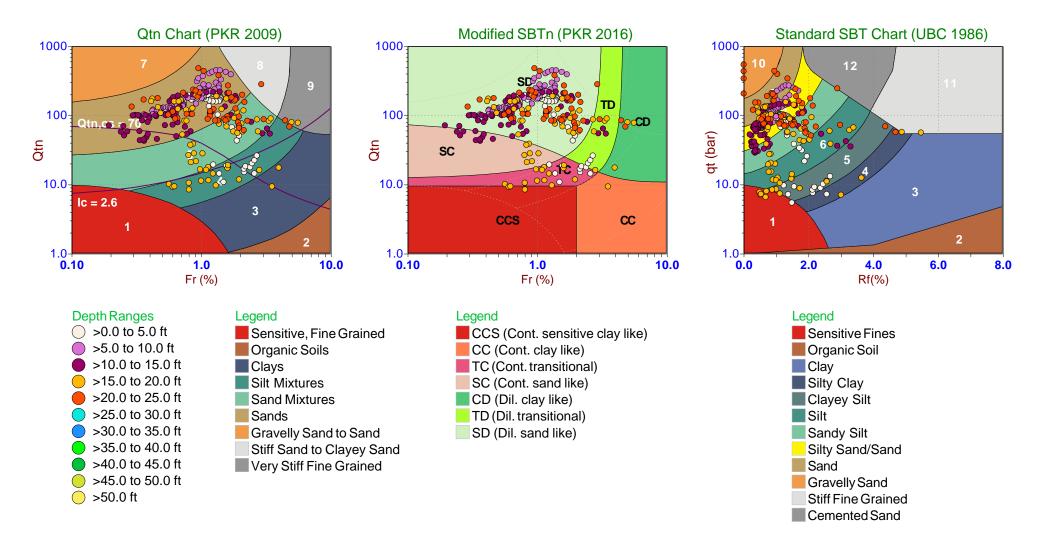




Job No: 23-53-26729 Date: 2023-10-26 12:00

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-252 Cone: 606:T1500F15U35





>40.0 to 45.0 ft

>45.0 to 50.0 ft

>50.0 ft

# CME Associates

Very Stiff Fine Grained

Job No: 23-53-26729 Date: 2023-10-26 12:47

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-261 Cone: 606:T1500F15U35

Sand

Gravelly Sand

Stiff Fine Grained
Cemented Sand

Qtn Chart (PKR 2009) Modified SBTn (PKR 2016) Standard SBT Chart (UBC 1986) 1000 1000-1000 12 100-100 100-°8% Qtn,cs = 70qt (bar) Qtu Qtn SC 10.0-10.0-10.0-Ic = 2.63 **CCS** CC 2 1.0+ 0.0 1.0 **0.10** 1.0 **0.10** 1.0 1.0 2.0 10.0 10.0 4.0 6.0 8.0 Fr (%) Fr (%) Rf(%) **Depth Ranges** Legend Legend Legend >0.0 to 5.0 ft Sensitive, Fine Grained Sensitive Fines CCS (Cont. sensitive clay like) >5.0 to 10.0 ft Organic Soils CC (Cont. clay like) Organic Soil >10.0 to 15.0 ft Clays TC (Cont. transitional) Clay >15.0 to 20.0 ft Silt Mixtures SC (Cont. sand like) Silty Clay >20.0 to 25.0 ft Sand Mixtures CD (Dil. clay like) Clayey Silt >25.0 to 30.0 ft Sands TD (Dil. transitional) Silt >30.0 to 35.0 ft Gravelly Sand to Sand SD (Dil. sand like) Sandy Silt >35.0 to 40.0 ft Silty Sand/Sand Stiff Sand to Clayey Sand



>40.0 to 45.0 ft

>45.0 to 50.0 ft

>50.0 ft

# CME Associates

Very Stiff Fine Grained

Job No: 23-53-26729 Date: 2023-10-26 15:56

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-262 Cone: 606:T1500F15U35

Sand

Gravelly Sand

Stiff Fine Grained
Cemented Sand

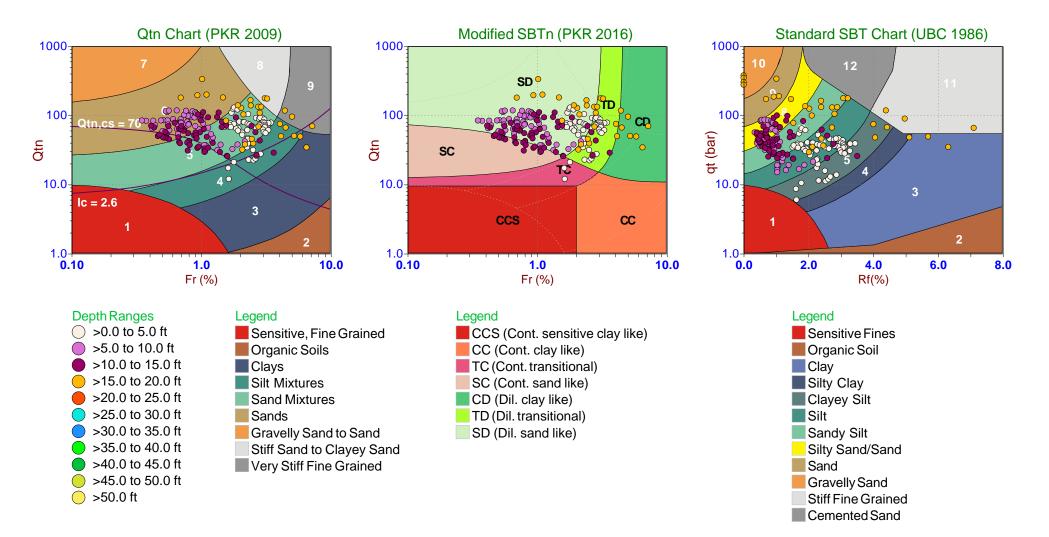
Standard SBT Chart (UBC 1986) Qtn Chart (PKR 2009) Modified SBTn (PKR 2016) 1000 1000 1000 100-100-100 CD Qtn.cs = 70qt (bar) Qtu Qtn SC 10.0-10.0 10.0-Ic = 2.6**CCS** CC 2 1.0+ 0.0 1.0 **0.10** 1.0 **0.10** 1.0 1.0 10.0 10.0 2.0 4.0 6.0 8.0 Fr (%) Fr (%) Rf(%) **Depth Ranges** Legend Legend Legend >0.0 to 5.0 ft Sensitive, Fine Grained Sensitive Fines CCS (Cont. sensitive clay like) >5.0 to 10.0 ft Organic Soils CC (Cont. clay like) Organic Soil >10.0 to 15.0 ft Clays TC (Cont. transitional) Clay >15.0 to 20.0 ft Silt Mixtures SC (Cont. sand like) Silty Clay >20.0 to 25.0 ft Sand Mixtures CD (Dil. clay like) Clayey Silt >25.0 to 30.0 ft Sands TD (Dil. transitional) Silt >30.0 to 35.0 ft Gravelly Sand to Sand SD (Dil. sand like) Sandy Silt >35.0 to 40.0 ft Silty Sand/Sand Stiff Sand to Clayey Sand



Job No: 23-53-26729 Date: 2023-10-26 13:48

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-270 Cone: 606:T1500F15U35

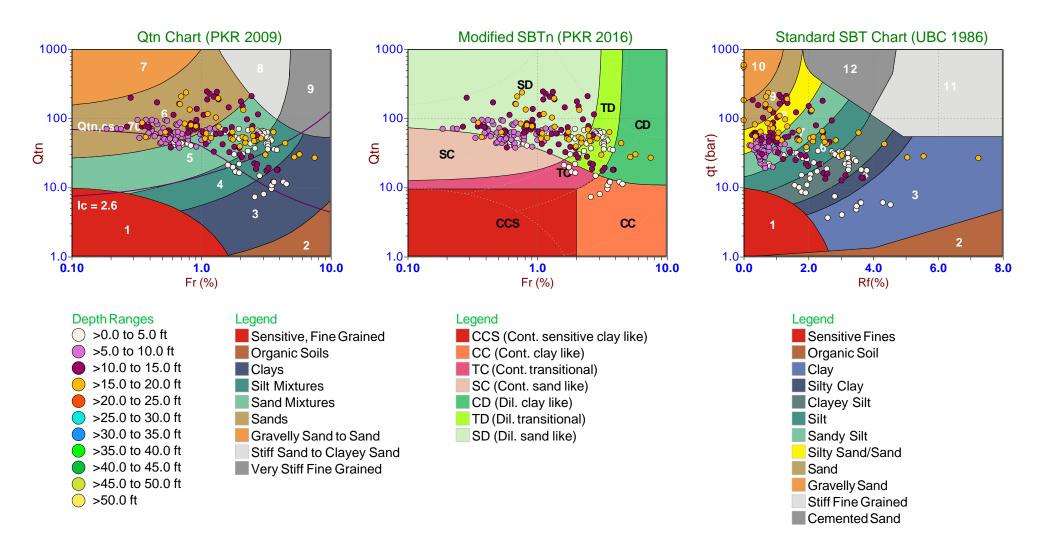




Job No: 23-53-26729 Date: 2023-10-26 14:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-280 Cone: 606:T1500F15U35



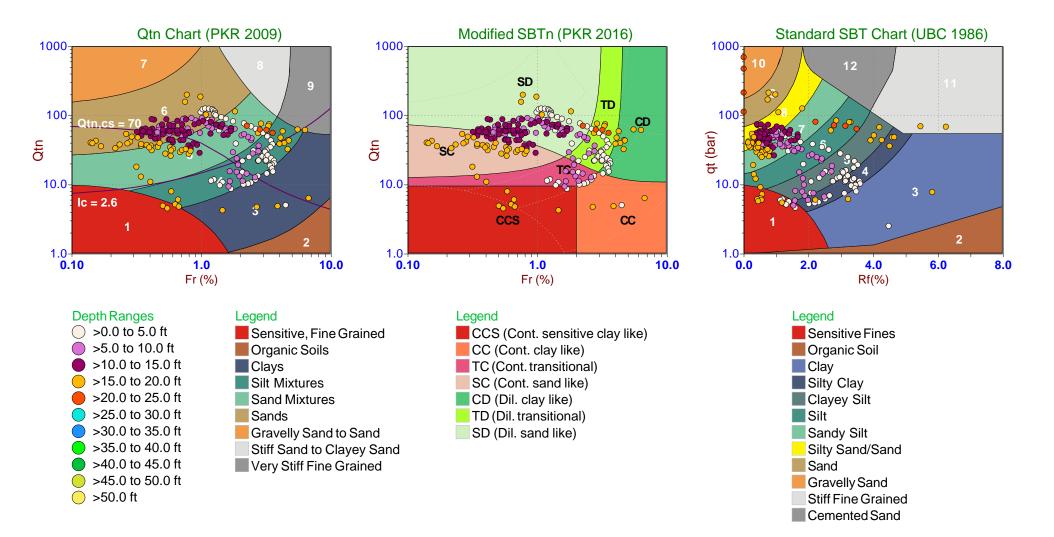


Job No: 23-53-26729 Date: 2023-10-26 15:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-282

Cone: 606:T1500F15U35

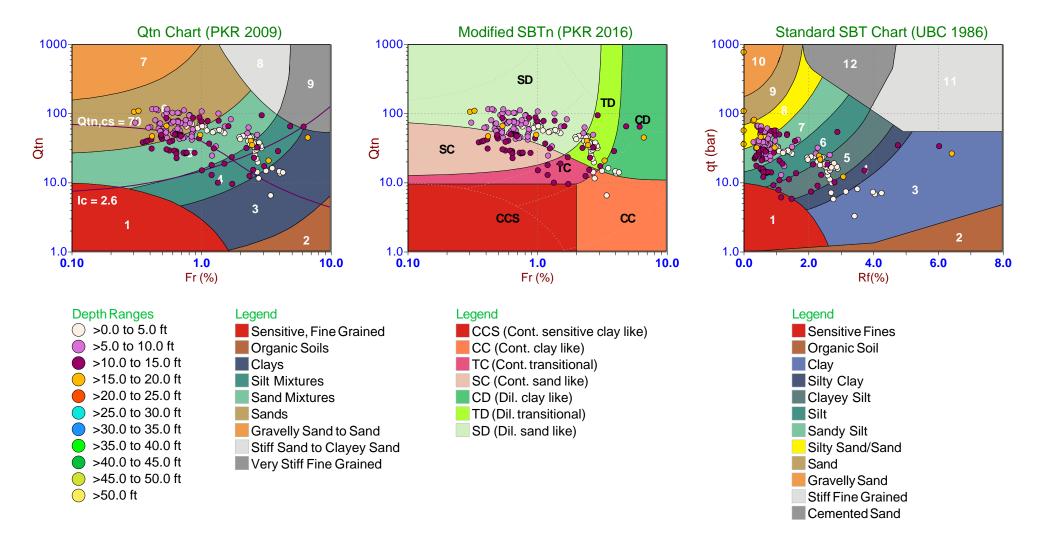




Job No: 23-53-26729 Date: 2023-10-27 08:32

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293 Cone: 606:T1500F15U35

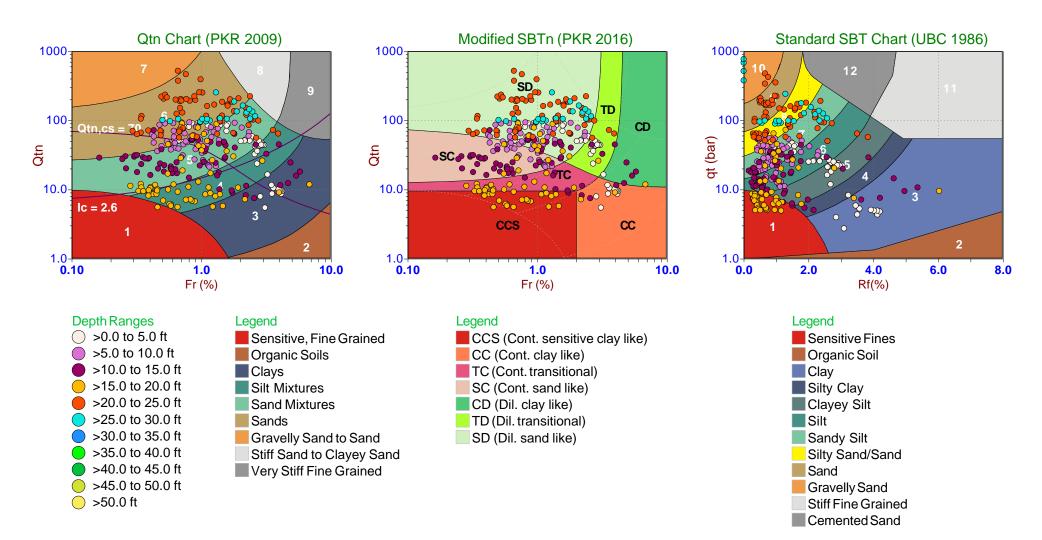




Job No: 23-53-26729 Date: 2023-10-26 08:32

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-312 Cone: 604:T1500F15U35

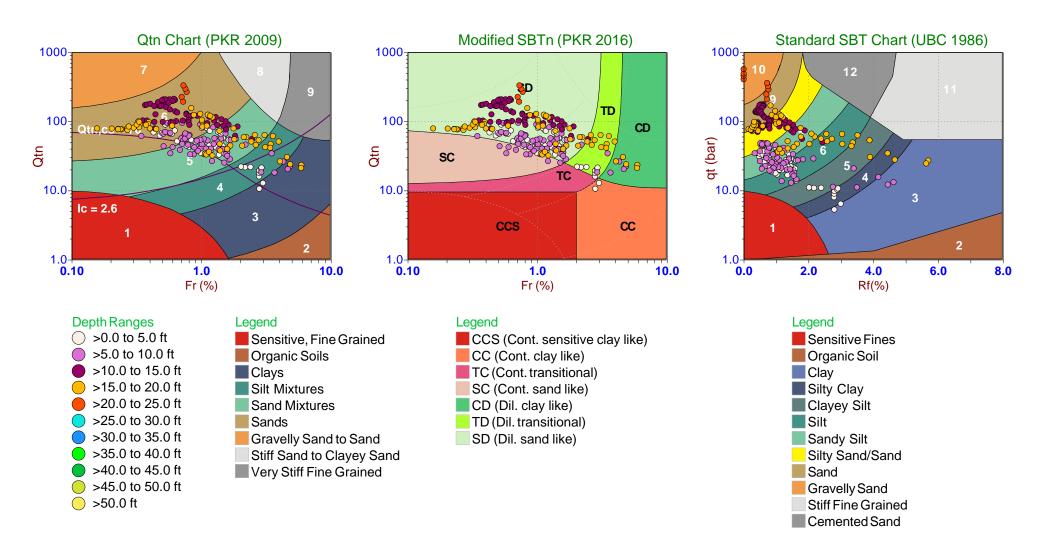




Job No: 23-53-26729 Date: 2023-10-28 11:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-325 Cone: 606:T1500F15U35



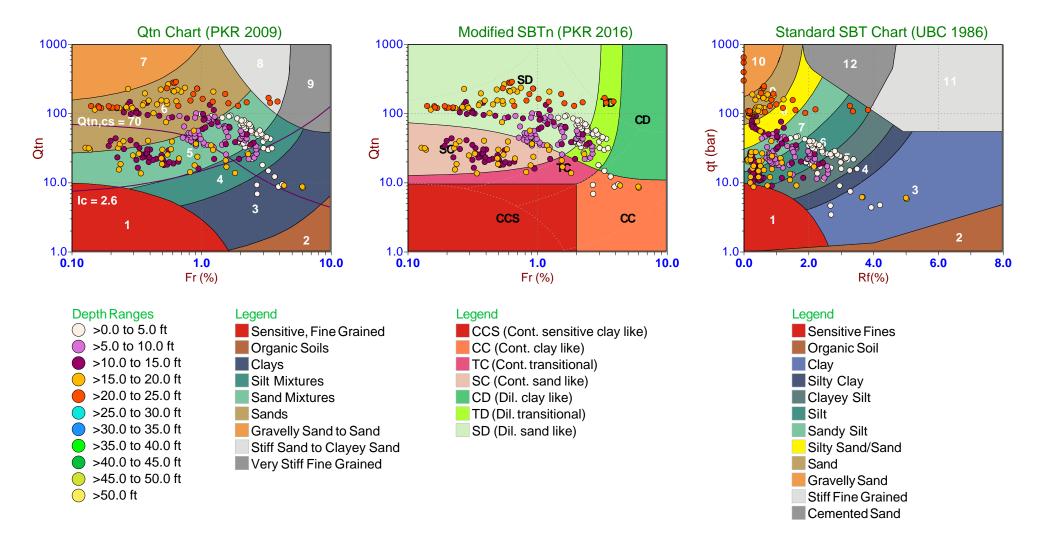


Job No: 23-53-26729 Date: 2023-10-28 10:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-327

Cone: 606:T1500F15U35





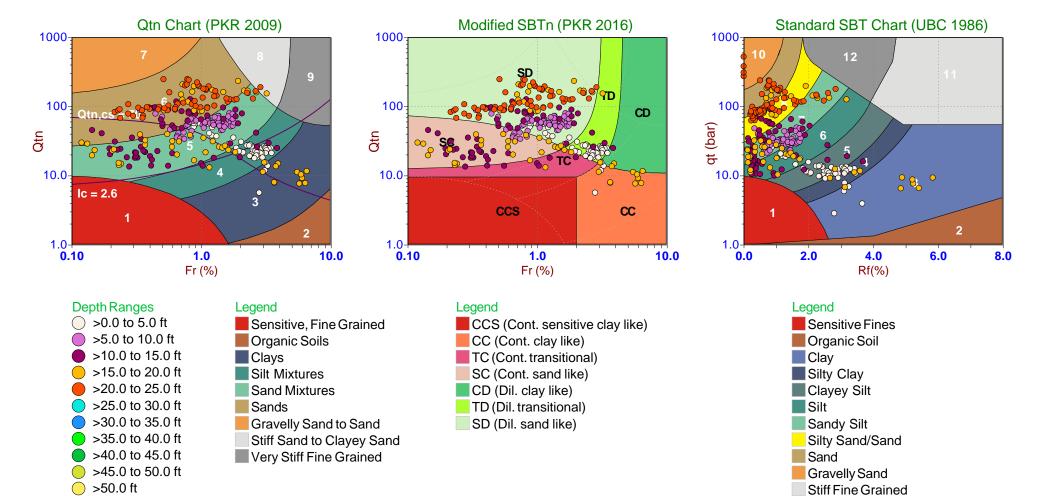
Job No: 23-53-26729 Date: 2023-10-28 09:35

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-329 Cone: 606:T1500F15U35

Cone: 606:T1500F15U35

Cemented Sand

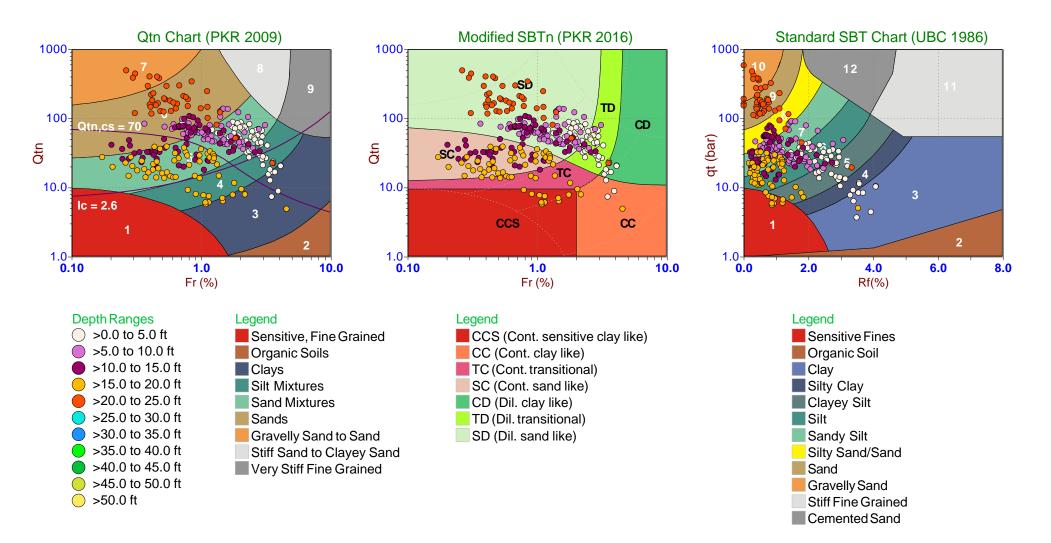




Job No: 23-53-26729 Date: 2023-10-28 08:46

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-330 Cone: 606:T1500F15U35

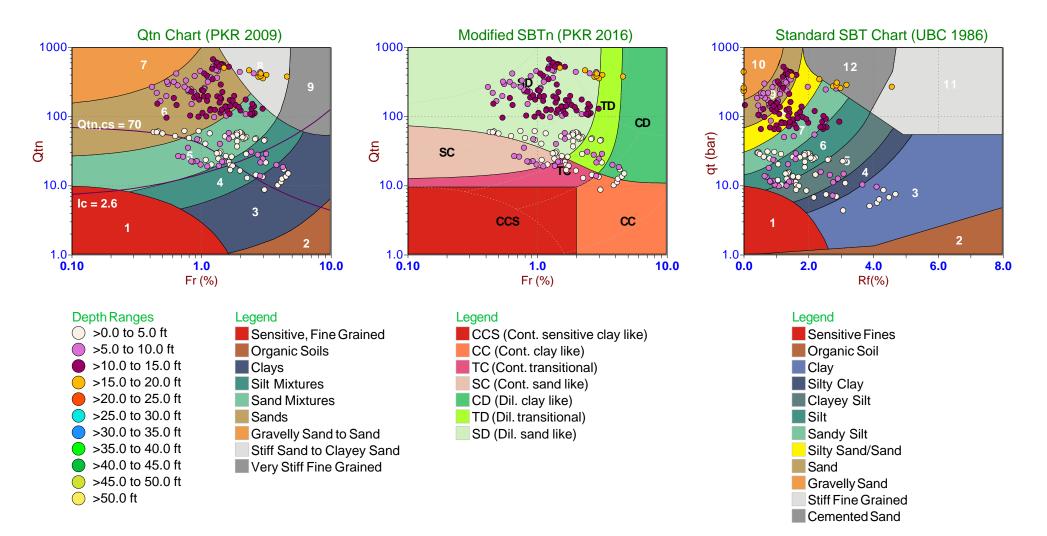




Job No: 23-53-26729 Date: 2023-10-28 07:24

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-332 Cone: 606:T1500F15U35

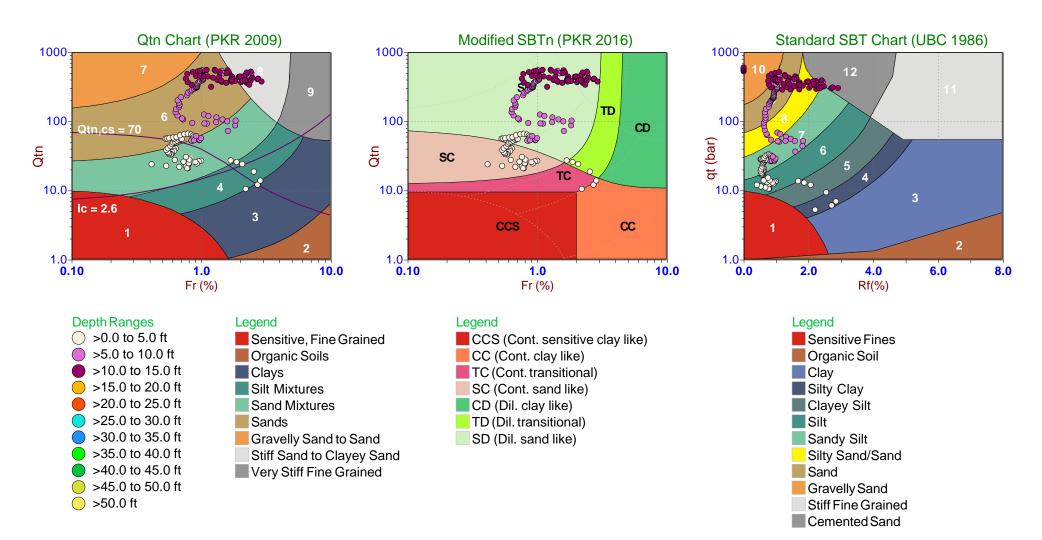




Job No: 23-53-26729 Date: 2023-10-27 16:22

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-345 Cone: 606:T1500F15U35

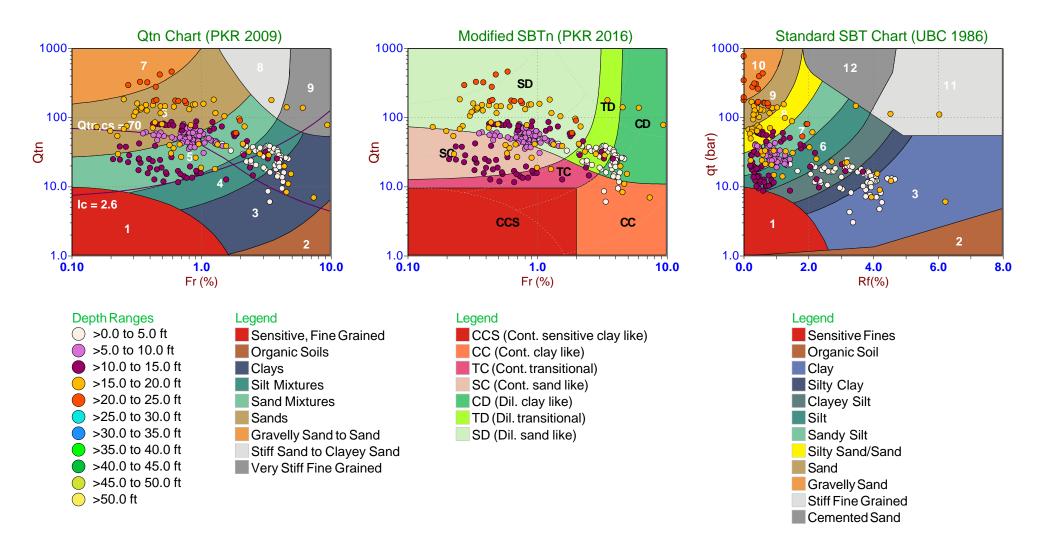




Job No: 23-53-26729 Date: 2023-10-27 15:44

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-351 Cone: 606:T1500F15U35

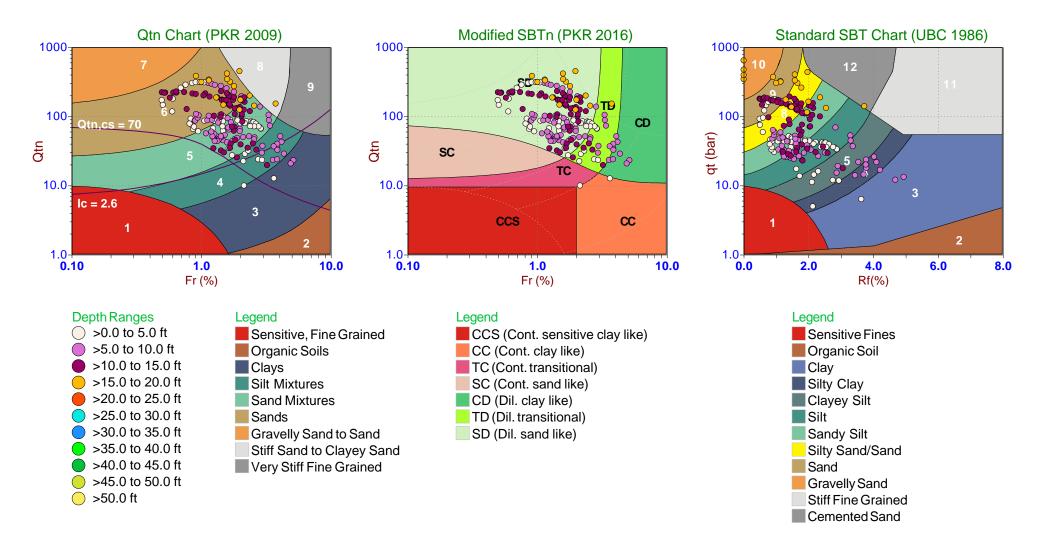




Job No: 23-53-26729 Date: 2023-10-28 15:41

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-360 Cone: 606:T1500F15U35

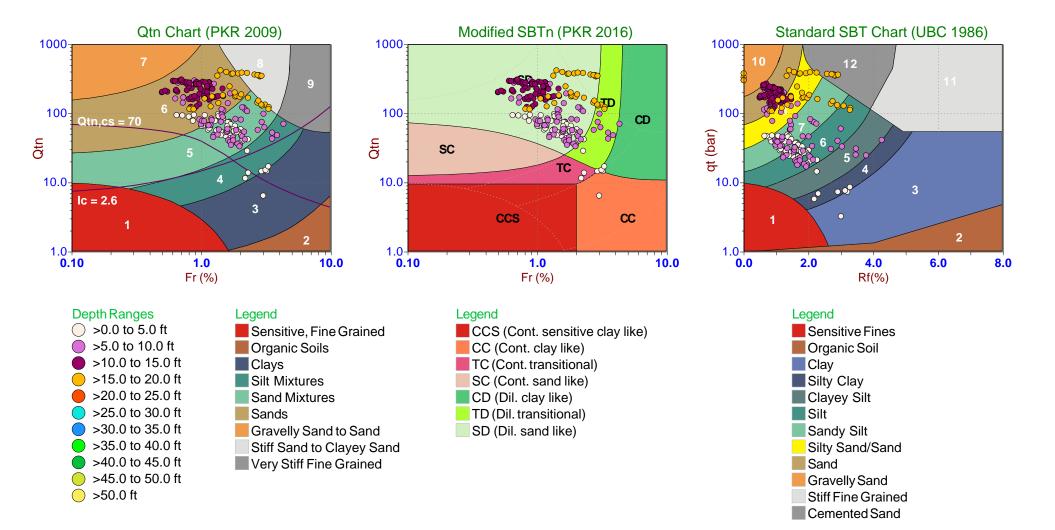




Job No: 23-53-26729 Date: 2023-10-28 15:11

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-362 Cone: 606:T1500F15U35

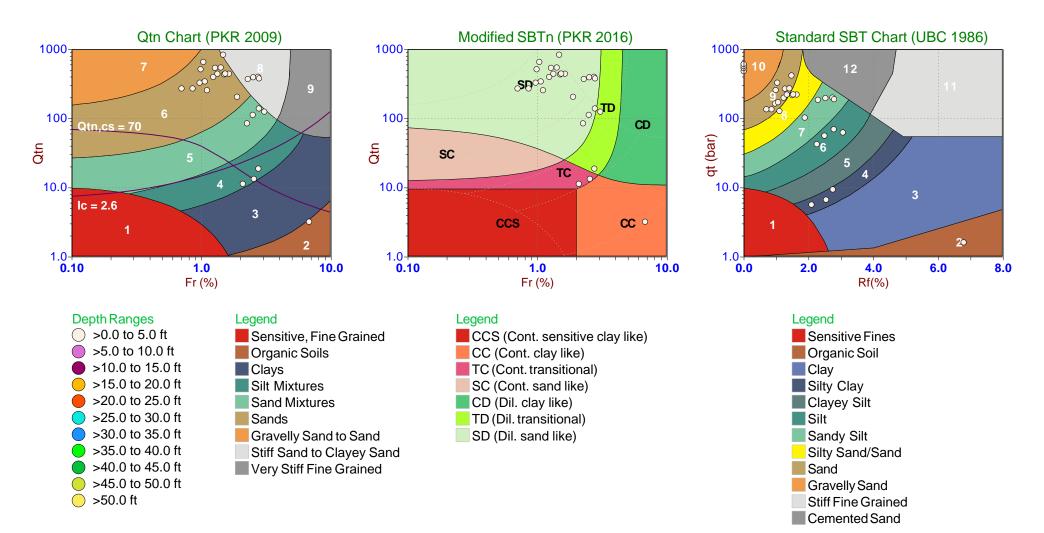




Job No: 23-53-26729 Date: 2023-10-28 14:34

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365 Cone: 606:T1500F15U35





>50.0 ft

# CME Associates

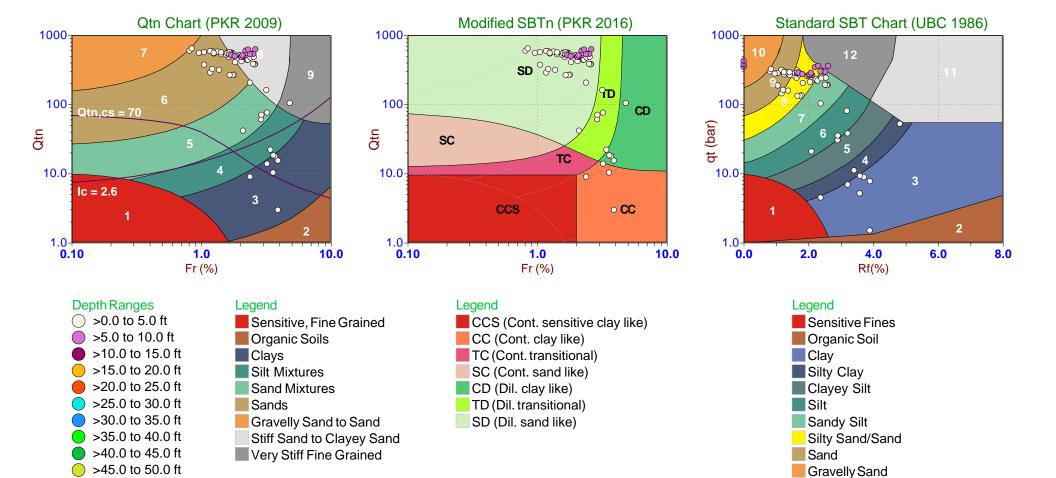
Job No: 23-53-26729 Date: 2023-10-28 14:44

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-365A

Cone: 606:T1500F15U35

Stiff Fine Grained Cemented Sand

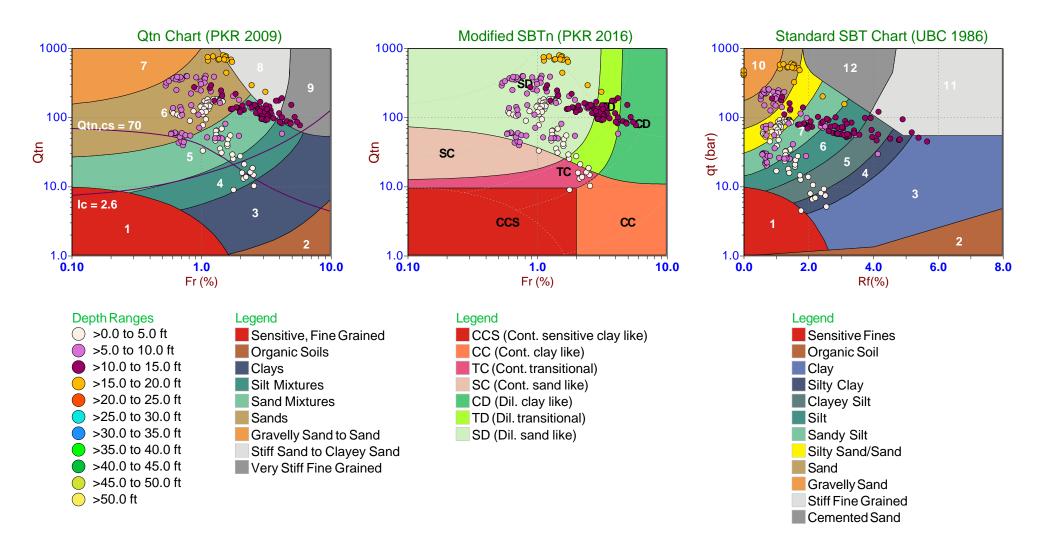




Job No: 23-53-26729 Date: 2023-10-28 12:53

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-371 Cone: 606:T1500F15U35

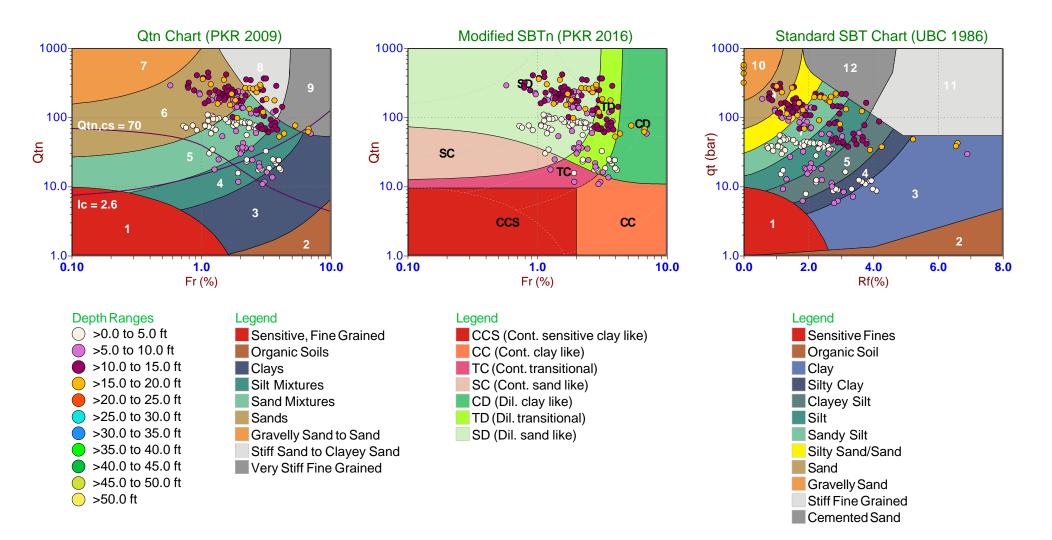




Job No: 23-53-26729 Date: 2023-10-28 13:25

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-372 Cone: 606:T1500F15U35



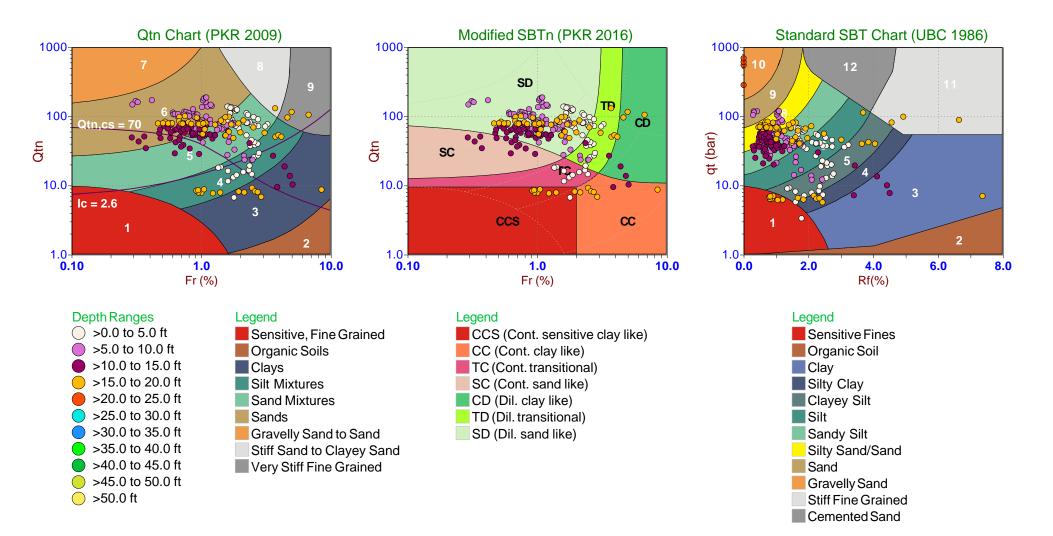


# CME Associates

Job No: 23-53-26729 Date: 2023-10-28 12:15

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-381 Cone: 606:T1500F15U35



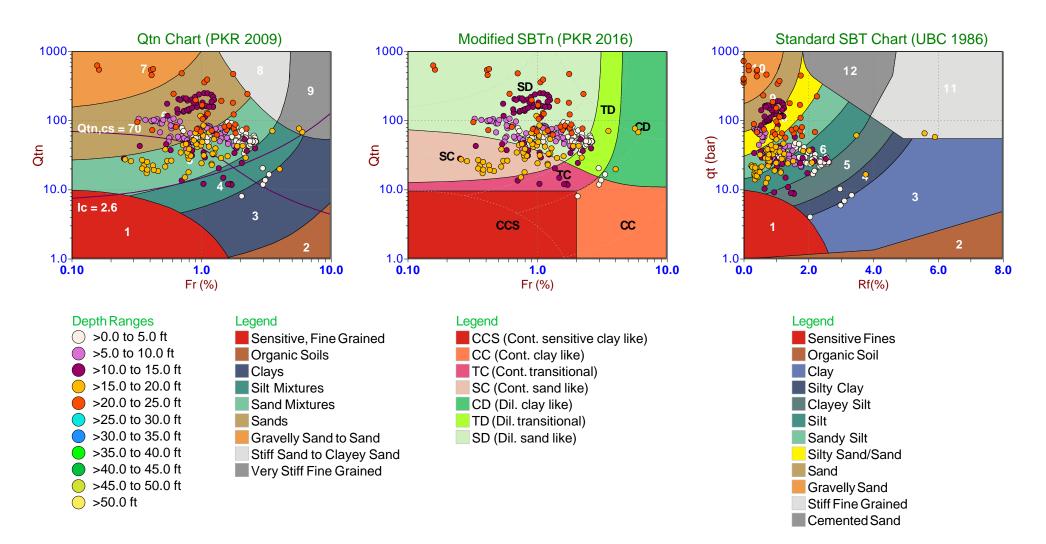


# CME Associates

Job No: 23-53-26729 Date: 2023-10-28 13:56

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-383 Cone: 606:T1500F15U35



# Pore Pressure Dissipation Summary and Pore Pressure Dissipation Plots





Job No: 23-53-26729
Client: CME Associates, Inc.

**Project:** Proposed Micron Plant, Clay, NY

 Start Date:
 23-Oct-2023

 End Date:
 28-Oct-2023

CPTu PORE PRESSURE DISSIPATION SUMMARY								
Sounding ID	File Name	Cone Area (cm²)	Duration (s)	Test Depth (ft)	Estimated Equilibrium Pore Pressure U _{eq} (ft)	Calculated Phreatic Surface (ft)	Refer to Notation	
CPT23-B-112	23-53-26729_CPB-112	15	600	9.35	0.9	8.4		
CPT23-B-222	23-53-26729_CPB-222	15	300	10.74	8.5	2.2		
SCPT23-B-293	23-53-26729_SPB-293	15	415	5.00	1.6	3.4		
CPT23-B-312	23-53-26729_CPB-312	15	300	24.11	18.2	5.9		
CPT23-B-327	23-53-26729_CPB-327	15	180	18.37	15.5	2.8		
Totals	5 Dissipations		30 min					



CME Associates, Inc.

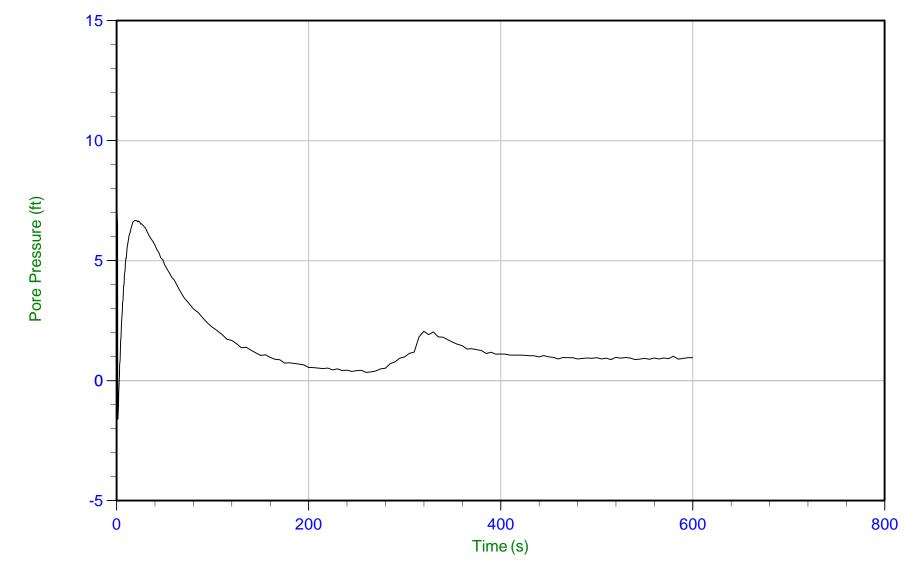
Job No: 23-53-26729

Date: 2023-10-24 10:50

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-112

Cone: 604:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 23-53-26729_CPB-112.PPF2

Depth: 2.850 m / 9.350 ft

Duration: 600.0 s

u Min: -1.6 ft

u Max: 8.6 ft

u Final: 1.0 ft

WT: 2.567 m / 8.422 ft

Ueq: 0.9 ft

CONETECH - CPT REPORT Page 260 of 263

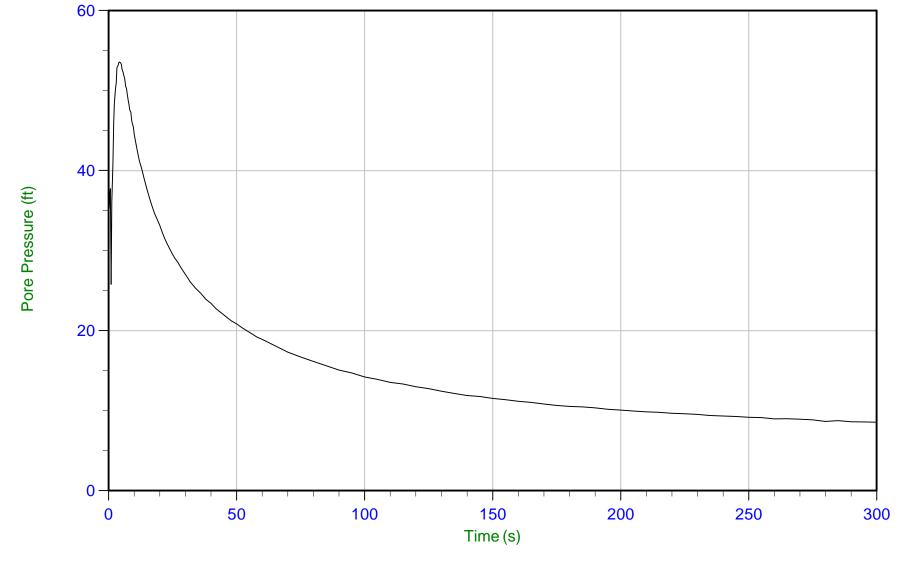
CONETEC

CME Associates, Inc.

Job No: 23-53-26729

Date: 2023-10-27 11:16 Site: Proposed Micron Plant, Clay, NY Sounding: CPT23-B-222

Cone: 606:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 23-53-26729_CPB-222.PPF2

Depth: 3.275 m / 10.745 ft

Duration: 300.0 s

u Min: 8.6 ft

u Max: 53.6 ft

u Final: 8.6 ft

WT: 0.674 m / 2.211 ft

Ueq: 8.5 ft

**CONETECH - CPT REPORT** Page 261 of 263

CONETEC

CME Associates, Inc.

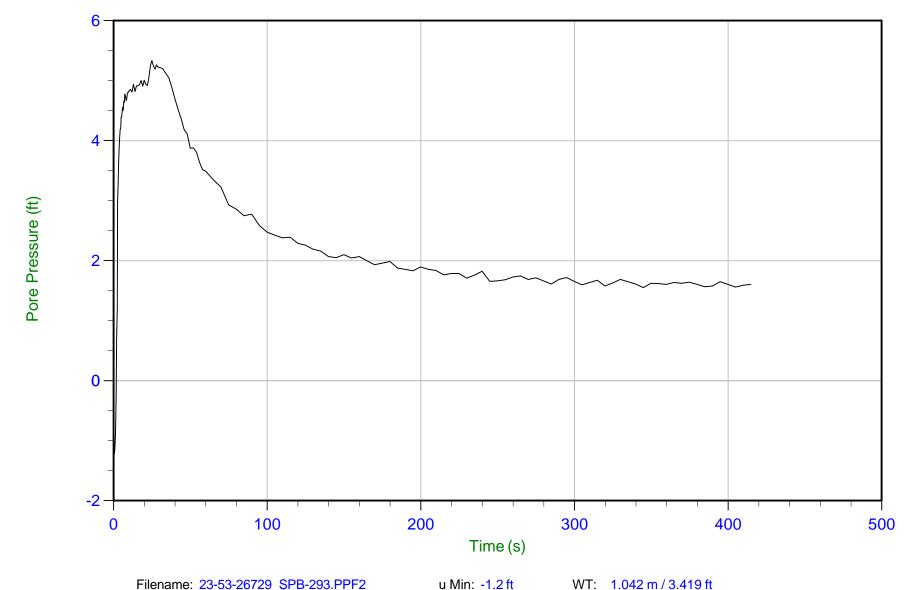
Job No: 23-53-26729

Date: 2023-10-27 08:32

Site: Proposed Micron Plant, Clay, NY

Sounding: SCPT23-B-293

Cone: 606:T1500F15U35 Area=15 cm²



Filename: 23-53-26729_SPB-293.PPF2

Depth: 1.525 m / 5.003 ft

Duration: 415.0 s

Trace Summary:

u Min: -1.2 ft

u Max: 5.3 ft

Ueq: 1.6 ft u Final: 1.6 ft



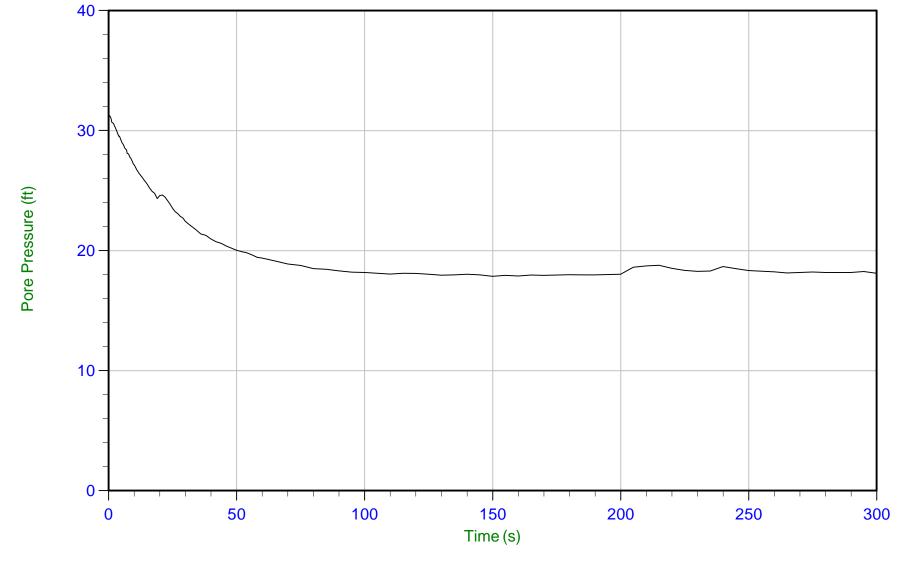
CME Associates, Inc.

Job No: 23-53-26729 Date: 2023-10-26 08:26

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-312

Cone: 604:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 23-53-26729_CPB-312.PPF2

Depth: 7.350 m / 24.114 ft

Duration: 300.0 s

u Min: 17.9 ft

u Max: 31.5 ft u Final: 18.1 ft WT: 1.811 m / 5.942 ft

Ueq: 18.2 ft



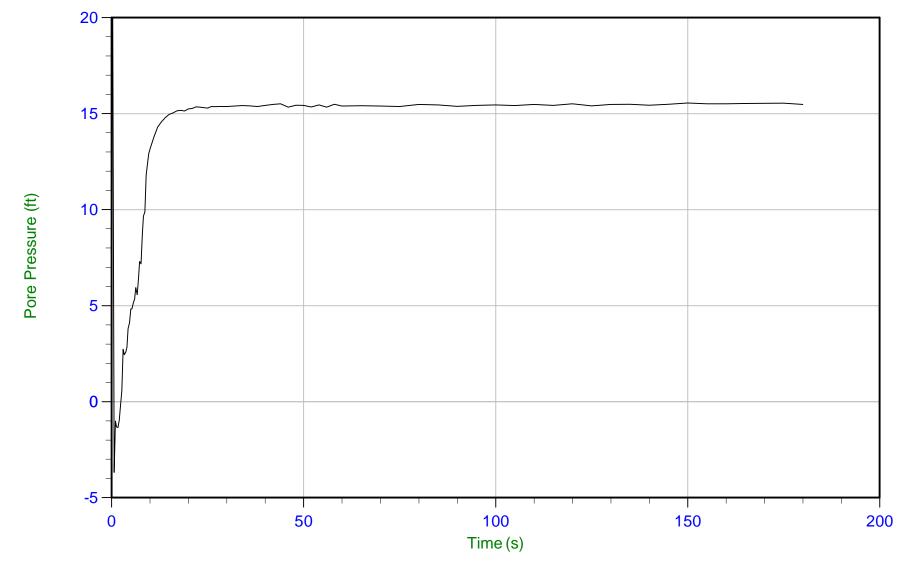
CME Associates, Inc.

Job No: 23-53-26729 Date: 2023-10-28 10:06

Site: Proposed Micron Plant, Clay, NY

Sounding: CPT23-B-327

Cone: 606:T1500F15U35 Area=15 cm²



Trace Summary:

Filename: 23-53-26729_CPB-327.PPF2

Depth: 5.600 m / 18.372 ft

Duration: 180.0 s

u Min: -3.7 ft

u Max: 20.0 ft

u Final: 15.5 ft

WT: 0.863 m / 2.831 ft

Ueq: 15.5 ft



#### GENERAL INFORMATION & KEY TO TEST BORING LOGS

The **Subsurface Exploration** – **Test Boring Logs** produced **by CME Associates, Inc.** (CME) present observations and mechanical data collected by the CME Drill Crew while at the site, supplemented, at times, by classification of the materials removed from the borings determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Exploration Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often, analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of CME's report and the recovered samples must be performed by Licensed Professionals having experience in Soil Mechanics, Geological Sciences and Geotechnical Engineering. The information presented in this Key defines some of the methods, procedures and terms used on the CME Exploration Logs to describe the conditions encountered. Refer to the Log on page 4 for key number.

Key No. Description

- 1. The figures in the **DEPTH SCALE** column define the vertical scale of the Boring Log.
- 2. The SAMPLE NO. is used for identification on the sample containers and in the Laboratory Test Report or Summary.
- 3. The SAMPLE DEPTH column gives the depth range from which a sample was recovered.
- 4. The TYPE / SAMPLE RECOVERY column is used to signify the various types of samples. "SS is Split Spoon, "U" is Undisturbed Tube, and "C" is Rock Core. For soil and rock samples, the recovered length of the sample is recorded in inches.
- 5. BLOWS ON SAMPLER This column shows the results of the "Standard Penetration Test (SPT) ASTM D1586", recording the number of blows required to drive a 2-inch outside diameter (O.D.) split spoon sampler into the ground beneath the casing. The number of blows required for each six inches of penetration is recorded. The total number of blows required for the 6-inch to 18-inch interval is summarized in the SPT "N" column and represents the "Standard Penetration Number". The outside diameter of the sampler, the hammer weight and the length of drop are noted in the Methods of Investigation portion of the log. A "WH" or "WR" in this column indicates that the sample spoon advanced a 6-inch interval under the Weight of Hammer + Rod or Weight of Rod, respectively. If a rock core sample is taken, the core bit size designation is given here.
- 6. The **DEPTH OF CHANGE** column designates the depth (in feet) that the driller noted a compactness or stratum change. In soft materials or soil strata exhibiting a consistent relative density, it is difficult for the driller to determine the exact change from one stratum to the next. In addition, a grading or gradual change may exist. In such cases the depth noted is approximate or estimated only and may be represented by a dashed line. When continuous split spoon sampling is not employed, or an interval of several feet exists between samplings, the Depth of Change may not be indicated at all.
- 7. VISUAL CLASSIFICATION OF MATERIAL Soil materials sampled and recovered are described by the Driller or Geotechnical Representative on the original field log. Notes of the Drillers observations are also placed in this column. Recovered samples may also be visually classified by a Geologist, Engineer, or Soil Technician. Visual soil classifications are made using a modified Burmister System as practiced by CME and as generally described in this Key and abbreviated on the Test Boring Log. This modified Burmister System is a type of visual-manual textural classification estimated by the Driller, Geologist, Engineer, or Technician on the basis of weight-fraction of the recovered material and estimated plasticity, among other characteristics. See Table 1 "Classification of Materials". The description of the relative compactness or consistency is based upon the standard penetration number as defined in Table 2. The description of the recovered sample moisture condition is described as dry, moist, wet, or saturated. Water used to advance the boring may affect the moisture content of the recovered sample. Special terms may be used to describe recovered materials in greater detail, such terms are listed in ASTM D653. When sampling gravelly soils with a standard two-inch O.D. Split Spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders, cobbles, and large gravel is sometimes, but not necessarily, detected by observation of the casing advancement and sampler blows and/or through the "action" of the drill rig, sampler and/or casing as reported by the Driller.

The description of **Rock** is based upon the recovered rock core. Terms frequently used in the description are included in Tables 3, 4 and 5. The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in inches. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is noted in Column 5. An "N" size core, being larger in diameter than "A" size core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. An estimate of in-situ rock quality is provided by a modified core recovery ratio known as the "**Rock Quality Designation**" (**RQD**). This ratio is determined by considering only pieces of core that are at least 4 inches long and are hard and sound. Breaks obviously caused by drilling are ignored. The percentage ratio between the total length of such core recovered and the length of core drilled on a given run is the RQD. Table 4 indicates in-situ rock quality as related to the **RQD**.

Page 1 of 4 KEY 112619



- 8. The SPT "N" or RQD is given in this column as applicable to the specific sample taken. In Very Compact coarse-grained soils and in Hard fine-grained soils the N-value may be indicated as 50+ or 100+. This typically means that the blow count was achieved prior to driving the sampler the entire 6-inch interval or the sampler refused further penetration. For an "N" size rock core, the RQD is reported here, expressed in percent (%).
- 9. GROUNDWATER OBSERVATIONS and timing noted by the Drill Crew are shown in this section. It is important to realize that the reliability of the water level observations depend upon the soil type (e.g. water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. Groundwater levels typically fluctuate seasonally so those noted on the log are only representative of that exhibited during the period of time noted on the log. One or more perched or trapped water levels may exist in the ground seasonally. All the available resources and data should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or through groundwater observation well installations.
- 10. METHODS of INVESTIGATION provides pertinent information regarding the identity of the Drill Crew members, inspector (if any), drill rig make and model, drill rig mount vehicle, casing and type of advancement, soil and rock sampling tools and appurtenances used in the installation of the Test Boring.

TABLE 1 - CLASSIFICATION OF MATERIALS					
GROUP	COARSE GRAINED SOILS TEXTURAL SIZES				
BOULDERS	larger than 12" diameter				
COBBLES	12" diameter to 3" sieve				
GRAVEL	3" - coarse - 1" - medium - 1/2" - fine - #4 sieve				
SAND	#4 - coarse - #10 - medium - #40 - fine - #200 sieve				
GROUP	FINE GRAINED SOILS SIZE (PLASTICITY*)				
SILT	#200 sieve (0.074mm) to 0.005mm size (see below *)				
CLAY	0.005mm size to 0.001 mm size (see below *)				
GROUP	ORGANIC SOILS, PEAT, MUCK, MARL				
ORGANIC	Based on smell, visual-manual and laboratory testing				

ABBREVIATIONS	TERM	ESTIMATED PERCENT OF TOTAL SAMPLE BY WEIGHT
<b>f</b> - fine	and	35 to 50%
<b>m</b> - medium	some	20 to 35%
c - coarse	little	10 to 20%
	trace	0 to 10%

		DRY STRENGTH TEST				
TERM	PLASTICITY INDEX	INDICATION	FIELD TEST RESULT			
non-plastic	0 - 3	Very low	falls apart easily			
slightly plastic	4 - 15	Slight	easily crushed by fingers			
plastic	15 - 30	Medium	difficult to crush			
highly plastic	31 or more	High	impossible to crush with fingers			

Page 2 of 4 KEY 112619



Primary Soil Type	Descriptive Term of Compactness	Range of Standard Penetration Resistance (N) less than 4 blows per foot	
COARSE GRAINED SOILS	Very Loose		
	Loose	4 to 10	
(More than half of Material	Medium Compact	10 to 30	
is larger than No. 200 sieve size)	Compact	30 to 50	
	Very Compact	Greater than 50	
FINE GRAINED SOILS	Descriptive Term of Consistency	Range of Standard Penetratio Resistance (N)	
	Very Soft	less than 2 blows per foot	
(More than half of material is	Soft	2 to 4	
smaller than No. 200 sieve size)	Medium Stiff	4 to 8	
,	Stiff	8 to 15	
	Very Stiff	15 to 30	
	Hard	Greater than 30	

^{*}The number of blows of 140-pound weight falling 30 inches to drive a 2-inch O.D., 1-3/8 inch I.D. sampler 12 inches is defined as the Standard Penetration Resistance, designated "N".

	TABLE 3 - ROCK (	CLASSIFICATION TERMS		
Rock Classification	n Terms	Field Test or Meaning of Term		
Hardness	Soft	Scratched by fingernail. Crumbles under firm blows with a geologic pick.		
	Medium Soft	Shallow indentations (1 to 3 mm) can be made by firm blows of a geologic pick. Can be peeled with a pocketknife with difficulty.		
	Medium Hard	Scratched distinctly by penknife or steel nail. Can't be peeled or scraped with unife.		
		Scratched with difficulty by penknife or steel nail. Requires more than one blow with a geologic hammer to break it		
	Very Hard	Cannot be scratched by penknife or steel nail. Breaks only by repeated heavy blows with a geologic hammer.		
Bedding	Thinly Laminated	less than 1/8 th inch		
	Laminated	1/8 th to 1 inch		
(Divisional planes	Thinly Bedded	1 inch to 4 inches		
and/or surfaces	Medium Bedded	4 inches to 12 inches		
separating it from layers	Thickly Bedded	12 inches to 48 inches		
above and below)	Massive	greater than 48 inches		

TABLE 4 Relation of Rock Quality Designation (RQD) and in-situ Rock Quality							
RQD %	RQD % Rock Quality Term Used						
90 to 100	Excellent						
75 to 90	Good						
50 to 75	Fair						
25 to 50	Poor						
0 to 25	Very Poor						

Page 3 of 4 KEY 112619



	TABLE 5 – BEDROCK WEATHERING CLASSIFICATION					
Classification	Diagnostic Features					
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.					
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.					
Moderately Weathered	Discoloration throughout. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with knife. Texture observed.					
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.					
Completely Weathered	Minerals decomposed to soil, but fabric and structure preserved (e.g. Saprolite). Specimens easily crumbled or penetrated.					
Residual Soil	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.					

	Fast Straguse NY 13057					ACE EXPLORATION T BORING LOG  Boring No Page N			B-2 of 1		
		ociates	, Inc.	Phone: 31	.5-701-0522				Report No.		
roject.	Name:								Date Started		
Aient:									Date Finished		
ocatio	n:							of the Landson	Surface Elev.		
		ME	THO	DS OF I	NVESTIGATI	ON		GROUNDWATER	R OBSERVAT	IONS	
riller: Filler:		10			Casing: Casing Hammer:	10	Date	Time	Depth (Ft.)	Casin	g At (Ft.)
Inspector: Other:			While Drilling		9	9					
rill Ri	g			5	oil Sampler:			Before Casing Removed			
ype:	0				lammer Wt:		1 1	After Casing Removed			
od Siz	e:			I	Iammer Fall:			After Casing Removed			
	LO	GOF	BOR	ING SA	MPLES		VISUAL C	CLASSIFICATION (	OF MATERIA	L	
Depth Scale (Feet)	Sample No.	Sample (Fi From	8	Type/ Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	c - coarse m - medium and - 35 to 5			SPT "N" or RQD%
1	2	3	3	4	5	6	100 1100	7			8
1	2	3	3	4	5	6		7			

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remarks:

Page 4 of 4 KEY 112619



6035 Corporate Drive East Syracuse, New York 13057 (315) 701-0522 (315) 701-0526 (Fax)

www.cmeassociates.com

June 20, 2023

Ramboll (Client) 94 New Karner Road Albany, New York Phone: 518.339.8829

Attn: Mr. Steve Maxwell, Construction Manager

Stephen.maxwell@ramboll.com

Re: Geotechnical Data Report – Revision 1

Micron Campus Clay, New York

CME Report No. 28062B-01-0523R1

Page 1 of 3

#### 1.0 INTRODUCTION

CME Associates, Inc. (CME) was retained by Ramboll (Client) to provide subsurface exploration and geotechnical services for the subject project. CME conducted a limited subsurface exploration at the subject project site, as part of the Phase 1 Exploration Program.

The Scope of Basic Services and this report have been provided pursuant to CME Proposal/Agreement No.: 05.7126, Addendum 3, dated 04/07/2023, authorized by Client via a Purchase Order (Ramboll PO # 1950006347, dated 04/14/2023). This report provides a summary of exploration activities conducted at the subject project site.

# 2.0 EXPLORATION METHODOLOGY

#### 2.1 Exploration Layout and Utility Clearance

The exploration locations were selected by the Client and staked by Thew Associates (Thew). Following the field stakeout, CME contacted UDig NY to clear public utilities at the exploration locations. Private utilities at the exploration locations were cleared by Thew. No utility conflicts were noted at the exploration locations.

The attached *CME Exploration Location Plan* depicts the approximate locations of the explorations. Elevation at grade at the exploration locations, along with Northing and Easting coordinates, was provided by Thew (See Table 1, attached).

# 2.2 Test Borings

A total of 60 Test Borings were advanced using either a Central Mine Equipment Model 550X (ATV-mounted) or Model 55 (track-mounted) rotary exploration drill rig, equipped with 3-¼" I.D. hollow stem augers. Soil sampling was conducted using a 140-pound hammer dropping through a distance of 30 inches to drive a 2" O.D. split barrel sampler in general conformance with ASTM Standard Practice D1586. Rock coring was performed in general conformance with ASTM Standard Practice D2113. Undisturbed Shelby Tube sampling was conducted in general conformance with ASTM D1587.

CME Report No.: 28062B-01-0523R1

Page 2 of 3



All Borings were backfilled with auger cuttings to nearly match the existing grade.

Soil samples were logged and visually classified in the field by the driller or an on-site Geotechnical Engineer or Geologist, and a portion of each soil sample was placed and sealed in a glass jar. Bedrock cores were placed and secured in a wooden box. The soil and rock classifications were later reviewed by a CME Engineer in CME's East Syracuse AASHTO resource¹ Accredited Laboratory. The visual soil and rock classifications were made using a modified Burmister Classification System, as practiced by CME and as generally described in the attached document entitled *General Information & Key to the Test Boring Logs*. The *Test Boring Logs* are attached. *Bedrock Core Photographs* are also attached to this report.

# 2.3 Infiltration Testing

A total of 3 Infiltration Tests (labeled IT-1 to IT-3) were performed. The tests were performed in general conformance with the requirements of the New York State Stormwater Management Design Manual, Appendix D: Infiltration Testing. The test details and results are given in the attached *Infiltration Test Reports*.

# 2.4 MASW Survey

An MASW Survey was conducted along four survey lines. CME Engineer Chen Liu, Ph.D., EIT, or Astitwa Sharma, EIT, and CME Field Technician Sahin Yumusak conducted this survey over a two-day period. Please refer to the attached *Geophysical Investigation Report* for details and the survey results.

# 2.5 Groundwater Level Monitoring Well

Three Groundwater Monitoring Wells, labeled W-1, W-2 and W-3, were installed near Boreholes, B-129, B-24, and B-227, respectively. Please refer to the attached *Groundwater Monitoring Well Logs*, labeled W-1 to W-3, for details of the well installation. Periodic monitoring of the groundwater level in said wells will be performed by CME. Please refer to the attached *Groundwater Level Monitoring Table* for observed groundwater levels thus far.

#### 2.6 Laboratory Testing

Laboratory Testing on selected soil samples was conducted in CME's East Syracuse Laboratory. Please refer to the attached *Laboratory Test Summary Report* for the ASTM Test Methods and test results.

#### 3.0 STANDARD OF CARE

CME endeavored to conduct services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the industry currently practicing in the same locality and under similar conditions as this project. No warranty, either expressed or implied, is made or intended by CME's proposal, contract, and written and oral reports, all of which warranties are hereby expressly disclaimed. CME shall not be responsible for the acts or omissions of the Client, its contractors, agents, and consultants. CME may rely upon information supplied by Client, its contractors, agents, and consultants or information available from generally accepted reputable sources without independent verification, and CME assumes no responsibility for the accuracy thereof.

¹ **AASHTO re:source** – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. www.AASHTOresource.org.

# *0,Ä&@578:Ä\$7!EÄ+F"G+CH" H"I+J& .9D@ÄJÄ7KÄJ



# L!"Ä */'M#\$2

/DPdHÄH#8F0I#IÞÄF#Ä+##"ÄK8,F09#9ÄII,890"JÄ 1,Ä ▷#Ä8#_!08#*#"1Ä,TÄ1>#Ä8#T#8#"I#9ÄDPÄ =8,K,H)-XĀJ8##*#"16ÄÄ1>#8ÄK8#H#"1)10,"#I3KÄ8#HH,8ÄÄ*K-0#9&ÄÄÖ"1#"9#9ÄÄ*)9#Ä6 01>8ÄHK#I1Ä 1,Ä1>#Ä0"T,8*)10,"ÄK8,F09#9Ä>#8#0"&Ä0"I-!90"JÄ+!1Ä&ÄÄO+IPÅI#9Ä)+0-01:ÄT,8Ä!H#Ä+:Ä,1>#8HC

(#HK#I1T!--:ÄE!+*011#9&Ä !" ÄBB7A;9:@BSÄ#<A!

( #F0#6#9Ä+:?

Ā::9ATU@<:Ä/;B:;<ĎEÄ

PGK-,8)10,"Äf,I)10,"Ä=-)"Ä.AÄ,TÄA2

/,,890")1#HÄ)"9ÄP-#F)10,"HÄW)+-#Ä.'Ä,TÄ'2

M8,!"96)1#8Äf#F#-ÄD,"01,80"JÄW)+-#Ä.AÄ,TÄA2

DĀEgÄE!8F#:Ä(#K,81Ä.AQÄ,TÄAQ2

U"T0-18)10,"ÄW#H1Ä(#K,81HÄ.'Ä,TÄ'2

R#98,I<Ä/,8#Ä=>,1,J8)K>HÄ.'Ä,TÄ'2

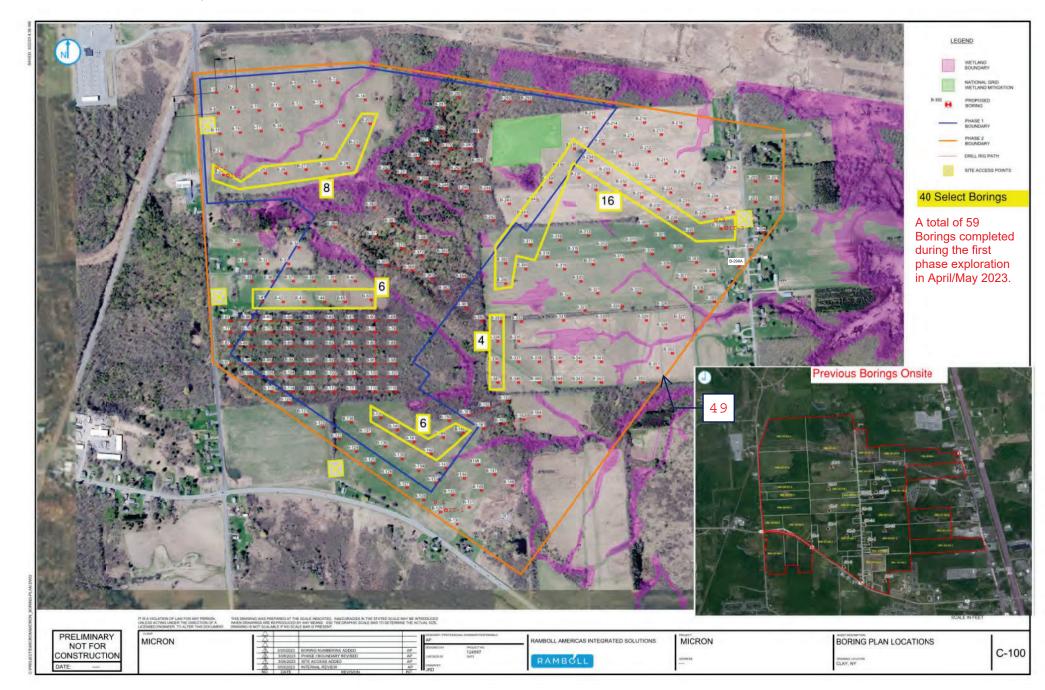
f)+,8)1,8:ÄW#H1ÄE!**)8:Ä(#K,81SÄ%@XA@X\$%\$'Ä.\$'Ä,TÄ\$'2

f)+,8)1,8:ÄW#H1ÄE!**)8:Ä(#K,81SÄ%QX%\$X\$%\$'Ä.'Ä,TÄ'2

M8,!"96)1#8ÄD,"01,80"JÄg#--Äf,JHÄ.'Ä,TÄ'2

W#H1ÄR,80"JÄf,JHÄ.3AÄ,TÄ3A2

M#"#8)-ÄU"T,8*)10,"ÄhÄ7#:Ä1,ÄW#H1ÄR,80"JÄf,JHÄ.4Ä,TÄ42



Point ID	Lattitude	Longitude	Northing	Easting	Elevation
B-14	43.19581	-76.1611	1164726	932791.1	394
B-19	43.19513	-76.1619	1164477	932583.5	391.8
B-20	43.19518	-76.161	1164494	932838.9	392.4
B-22	43.19456	-76.1625	1164266	932420.1	391.8
B-23	43.19459	-76.1614	1164281	932723.3	387.3
B-24	43.19384	-76.1663	1163999	931420	394.6
B-25	43.19386	-76.1648	1164010	931827.8	393
B-26	43.19386	-76.164	1164010	932027.5	392.1
B-27	43.19397	-76.1633	1164052	932218.3	390
B-28	43.19403	-76.1626	1164075	932415.6	390.5
B-29	43.19416	-76.1618	1164121	932620.7	389.7
B-41	43.19048	-76.1649	1162775	931799.5	398.8
B-42	43.19047	-76.1641	1162775	931999.6	
B-43	43.19047	-76.1634	1162775	932199.7	396.3
B-44	43.19047	-76.1626	1162775	932399.7	397.9
B-45	43.19047	-76.1619	1162775	932599.5	399.9
B-50	43.19052	-76.161	1162795	932847.7	396.6
B-123	43.18683	-76.1621	1161450	932542.7	418.3
B-124	43.18651	-76.1615	1161334	932705.1	420.8
B-125	43.18618	-76.1609	1161216	932867.1	422.1
B-126	43.18586	-76.1603	1161099	933029.3	421.6
B-127	43.18554	-76.1597	1160982	933191.5	420.6
B-128	43.18521	-76.1591	1160865	933353.9	419.5
B-129	43.18489	-76.1585	1160748	933516.1	418.8
B-130	43.18457	-76.1579	1160631	933678.1	418.8
B-131	43.18501	-76.1574	1160793	933795.2	409.4
B-132	43.18533	-76.1581	1160910	933632.8	410.3
B-133	43.18566	-76.1587	1161027	933470.7	410.3
B-134	43.18598	-76.1593	1161145	933308.4	411.5
B-135	43.1863	-76.1599	1161261	933146.2	412.5
B-136	43.18663	-76.1605	1161378	932984	413
B-137	43.18695	-76.1611	1161495	932821.9	413.5
B-138	43.18727	-76.1617	1161612	932659.7	412.4
B-139	43.18739	-76.1606	1161658	932938.8	407.3
B-140	43.18707	-76.16	1161541	933101.2	407.2
B-141	43.18675	-76.1594	1161424	933263.4	407.4
B-142	43.18642	-76.1588	1161307	933425.4	407.3
B-143	43.18601	-76.1583	1161156	933552.5	405.7
B-144	43.18578	-76.1576	1161073	933749.8	406.4
B-145	43.18545	-76.157	1160955	933911.7	406.5
B-148	43.18608	-76.1571	1161185	933892.8	404.3
B-149	43.18687	-76.1584	1161469	933542.5	406.1
B-160	43.18698	-76.1576	1161510	933738.3	405.1
B-207	43.19279	-76.1478	1163642	936342.3	389.9
B-208	43.19311	-76.1484	1163759	936180.1	390.8
B-209	43.19344	-76.1491	1163876	936017.8	391

Point ID	Lattitude	Longitude	Northing	Easting	Elevation
B-210	43.19376	-76.1496	1163993	935855.6	386.3
B-211	43.19407	-76.1503	1164106	935687.4	385.9
B-212	43.19441	-76.1509	1164227	935531.1	386.8
B-213	43.19473	-76.1515	1164344	935369	387.3
B-214	43.19505	-76.1521	1164461	935206.7	383.5
B-215	43.19533	-76.1529	1164559	934998	382.3
B-216	43.19517	-76.151	1164506	935485.7	385.8
B-217	43.19485	-76.1504	1164389	935648.1	387.8
B-218	43.19506	-76.1497	1164465	935832.9	386.4
B-219	43.19493	-76.1531	1164416	934927.3	385.9
B-220	43.19461	-76.1525	1164299	935089.6	387.4
B-221	43.19429	-76.1519	1164181	935251.9	389.8
B-222	43.19396	-76.1513	1164065	935414.1	389.7
B-223	43.19364	-76.1507	1163948	935576.4	386.9
B-224	43.19332	-76.1501	1163831	935738.7	389.5
B-225	43.19299	-76.1495	1163714	935900.8	391.5
B-226	43.19267	-76.1489	1163597	936062.9	390.1
B-227	43.19235	-76.1483	1163480	936225.2	389.3
B-229	43.19255	-76.1499	1163551	935783.8	391.9
B-230	43.19287	-76.1505	1163668	935621.5	391
B-231	43.1932	-76.1511	1163785	935459.3	388.2
B-232	43.19352	-76.1518	1163902	935297.1	387.8
B-233	43.19384	-76.1524	1164019	935134.9	389.9
B-234	43.19417	-76.153	1164136	934972.7	389.9
B-235	43.19449	-76.1536	1164253	934810.5	390.4
B-236	43.19405	-76.154	1164091	934693.5	394
B-239	43.19361	-76.1544	1163930	934600.3	393
B-240	43.19308	-76.1549	1163739	934457.1	392.8
B-241	43.19272	-76.1553	1163604	934342.7	393.5
B-317	43.19195	-76.1552	1163325	934387.9	392.9
B-333	43.18993	-76.1563	1162586	934098.8	394.9
B-334	43.18941	-76.1564	1162398	934071.1	397.8
B-336	43.18884	-76.1564	1162189	934062.2	403.9
B-337	43.18886	-76.1556	1162197	934270.9	403.5
B-338	43.18885	-76.1549	1162197	934470.9	394.4
B-339	43.18885	-76.1541	1162197	934670.9	391.9
B-340	43.18878	-76.1533	1162172	934882.8	391.4
B-341	43.18886	-76.1527	1162201	935059.4	391
B-342	43.1883	-76.1526	1161997	935071	391.5
B-343	43.1883	-76.1534	1161997	934870.9	393.1
B-344	43.1883	-76.1541	1161997	934671	395.8
B-345	43.1883	-76.1549	1161997	934471	406.6
B-346	43.18831	-76.1556	1161998	934271.1	403.9
B-347	43.18831	-76.1564	1161998	934071.1	401.7
B-390	43.19093	-76.1561	1162952	934146.7	392.8
B-392	43.19146	-76.1561	1163147	934146.1	393.5

Point ID	Lattitude	Longitude	Northing	Easting	Elevation
IT-1	43.18489			933516.1	418.8
W-1	43.18489	-76.1585	1160748	933516.1	418.8
IT-2	43.19384	-76.1663	1163999	931425	394.6
W-2	43.19385	-76.1663	1164004	931420	394.6
IT-3	43.19235	-76.1483	1163480	936230.3	389.3
W-3	43.19236	-76.1483	1163485	936225.2	389.3
B-1	43.19603	-76.1665	1164796	931352	392.7
B-2	43.19606	-76.1658	1164809	931551.5	392.8
B-3	43.19609	-76.165	1164822	931751.1	393
B-4	43.19613	-76.1643	1164835	931950.8	393.2
B-5	43.19616	-76.1635	1164849	932150.3	392.7
B-6	43.19619	-76.1628	1164862	932349.9	391.2
B-7	43.19628	-76.1622	1164895	932518.1	391.2
B-8	43.19548	-76.1665	1164596	931369	393.7
B-9	43.19551	-76.1657	1164610	931568.6	392.4
B-10	43.19555	-76.165	1164623	931768.2	393.1
B-11	43.19558	-76.1642	1164636	931967.8	392.3
B-12	43.19561	-76.1635	1164649	932167.2	391.5
B-13	43.19565	-76.1627	1164663	932366.8	391.1
B-15	43.19493	-76.1664	1164397	931386.1	394
B-16	43.19497	-76.1657	1164410	931585.5	393.9
B-17	43.195	-76.1649	1164424	931785.1	393.3
B-18	43.19497	-76.1643	1164413	931955.2	391.9
B-21	43.19438	-76.1663	1164198	931403.1	393.7
B-35	43.19103	-76.1653	1162975	931696.1	397.4
B-36	43.19102	-76.1645	1162975	931896	394.7
B-37	43.19102	-76.1638	1162975	932096.1	394.3
B-38	43.19102	-76.163	1162975	932296	397.2
B-39	43.19102	-76.1623	1162975	932496	397
B-40	43.19101	-76.1615	1162975	932696.2	396.5
B-121	43.18748	-76.1633	1161684	932218	414.8
B-122	43.18715	-76.1627	1161567	932380.2	418.8
B-206	43.19386	-76.1478	1164032	936358.1	390.7
B-305	43.19042	-76.1485	1162776	936163.8	388.1
B-306	43.19069	-76.149	1162876	936036.6	388.3
B-307	43.19102	-76.1496	1162993	935874.3	388.7
B-303	43.19146	-76.1492	1163155	935991.3	390.8
B-304	43.19114	-76.1486	1163038	936153.5	390.5
B-350	43.18829	-76.1511	1161997	935470.9	391.4
B-351	43.18868	-76.1506	1162139	935612.5	390.1
B-352	43.18901	-76.1501	1162261	935756.5	388.7
B-299	43.19145	-76.1475	1163154	936425.5	387.7

# ATTACHMENT TO CME REPORT NO.: 28062B-01-0523R1

# Groundwater Level Monitoring Table Micron Campus, Clay, New York

	Observed Groundwater Elevation and Depth Below Grade (ft)					
Reading Date	W-1 (Grade Elevation 418.8 ft)		W-2 (Grade Elevation 394.6 ft)		W-3 (Grade Elevation 389.3 ft)	
	Elevation	Depth Below Grade	Elevation	Depth Below Grade	Elevation	Depth Below Grade
4/19/2023	418.7	0.1	-	-	385.5	3.8
4/21/2023	-	-	393.8	0.8	-	-
5/16/2023	416.1	2.7	392.5	2.1	385.7	3.6
5/17/2023	416.0	2.8	391.8	2.8	386.4	2.9
6/12/2023	414.6	4.2	386.8	7.8	385.3	4.0

# **MASW Survey Report**

# Micron Campus Clay, New York

Prepared For: (Client) Ramboll

Attn: Mr. Steve Maxwell, Construction Manager

94 New Karner Road Suite 106 Albany, New York 12203 Phone: 518.339.8829

Email: stephen.maxwell@ramboll.com

Prepared By: (Geotechnical Engineer) CME Associates, Inc.

Attn: Ms. Chen Liu, Ph.D., EIT and

Mr. Anas N. Anasthas, P.E. 6035 Corporate Drive

East Syracuse, New York 13057 Phone: 315.701.0522 Ext.: 258

Fax: 315.701.0526

Email: cliu@cmeassociates.com

CME Report No.: 28062N-01-0523 May 23, 2023

# Table of Contents CME Report No. 28062N-01-0523

		Page
1.0	INTRODUCTION	1
2.0	MASW Survey	1
2.1	Theory and Application	
2.2	Equipment	3
2.3	Methodology	3
2.4		4
2.5	Results	6
3.0	CLOSING COMMENTS	13

Page 1 of 14



# MASW Survey Report Micron Campus Clay, New York

# 1.0 INTRODUCTION

CME Associates, Inc. (CME) conducted a limited Geophysical Investigation consisting of a surficial seismic survey to determine vertical seismic shear wave velocity profiles at the subject project site. This report presents the shear wave velocity (Vs) measurements obtained from the surficial seismic survey.

The fieldwork and this report have been provided pursuant to the execution of CME Proposal/Agreement No.: 05.7126, Amendment 3, dated 04/07/2023, by Ramboll (Client), via a Purchase Order (Ramboll P.O.#1950006347, dated 04/14/2023).

#### 2.0 MASW SURVEY

A Surface-wave Analysis was conducted for indirect measurement of seismic shear wave velocity (Vs), using MASW (Multichannel Analysis of Surface Waves) and MAM (Microtremor Array Measurement) methods. These survey methods are less time consuming and more cost effective, compared to the direct measurement methods such as Crosshole and Downhole Seismic Testing, and these practices are widely utilized and accepted in the geotechnical profession.

# 2.1 Theory and Application

Recently, surface wave methods have become the seismic techniques most often used to estimate the Vs structure of soil because of their non-invasive nature and greater efficiency in data acquisition and processing (Park and Miller, 2004). Surface waves are a form of mechanical waves that propagate while attenuating (breaking down) along the interface of strata. The signal-to-noise ratio for surface waves is stronger than that of body waves (primary and secondary waves) (Park, Miller and Xia, 1999). Love waves and Rayleigh waves are formed by surface waves; however, the Surface-wave Analysis method focuses on Rayleigh waves.

Particle motion of Rayleigh waves in a homogeneous medium moving from left to right is elliptical in a counterclockwise (retrograde) direction along the free surface (Xia, et al., 2004). As Rayleigh waves propagate through the ground, wave frequency (or wavelength) is altered by vertical variation in Vs. Variation in wave frequency has a direct relationship on wave velocity. The velocity at which the phase of a certain wave frequency travels is called phase velocity. A property known as dispersion develops by propagation of phase velocities (Park, Miller and Xia, 1999).

**Page 2 of 14** 



Longer wavelengths (lower frequencies) are more sensitive to elastic properties of deeper layers, therefore have greater phase velocity and penetrate further underground. Shorter wavelengths are more sensitive to physical properties of near-surface layers (Xia, Miller and Park, 1999). Within the range of frequencies recorded from the survey, the strongest energy waveforms will have the highest signal-to-noise ratio, termed the Fundamental Mode (M0). Any higher modes or body waves within recorded data are considered noise. By recording M0 Rayleigh waves propagating horizontally and directly from the seismic source to receiver, the dispersive properties directly beneath the source and receiver spread can be measured and usually represented by a curve (called Dispersion Curve) depicting variation of phase velocities with frequency (Park and Miller, 2004). This curve is then used to back-calculate the vertical variation of Vs and construct a one-dimensional (1D) Vs profile. An overview of procedure for data collection and processing of M0 Rayleigh waves is depicted below in Figure 1.

Determined Vs of waves are used to interpret the structure of soil layers because of the close relationship Vs has to shear strength and stiffness of soil (Park et al., 2007). An increase or decrease in Vs demonstrates a greater or reduced shear strength and stiffness of soil layer.

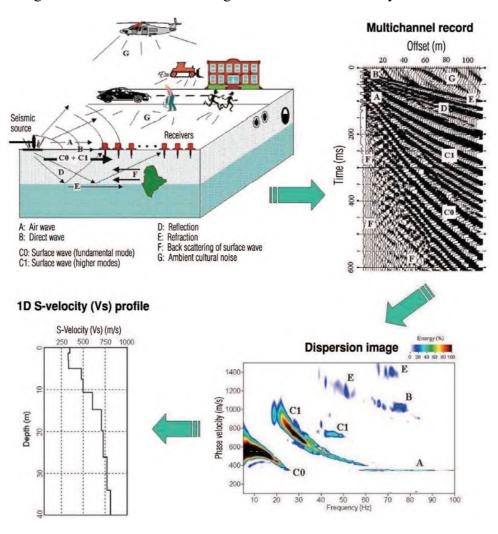


Figure 1. Overall procedure for data collection and processing.

**Page 3 of 14** 



# 2.2 Equipment

The data collection for the surface wave analysis was achieved by utilizing an underground imaging tool (Geometrics ES-3000 Seismograph) and data acquisition software (Seismodule Controller). As illustrated in Figure 2, attached to the seismograph is a channel cable, power cable, Ethernet cord, and time break (trigger) cable. The channel cable has 24 connectors used to connect receivers along a spread. The receivers are geophones coupled to the ground within a spread configuration at desired intervals of spacing. The power cable is equipped to a battery to power the seismograph.

An Ethernet cord is used to connect the seismograph to a computer for data collection via the Seismodule Controller software. A time-break cable is attached to the upper handle of a sledgehammer, which sends a signal to the seismograph at hammer strike, initiating a recording. A metal strike plate is placed at a fixed off-set distance away from the receiver spread, amplifying dynamic energy when struck by the hammer. Once the hammer strikes the plate, vibrational impulses felt in the geophones are transported via the channel cable, acquired by the seismograph, and recorded on the computer.

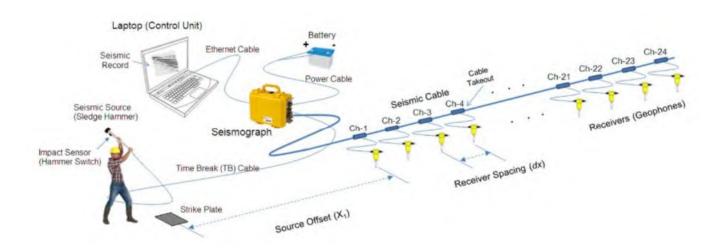


Figure 2. Typical field configuration with an active source survey.

# 2.3 Methodology

There are two methods used for Surface-wave Analysis; active (MASW) and passive (MAM) source surveying. Both techniques are employed along the same spread configuration, but with different data quality for underlying strata. To perform an active survey, a dynamic source (such as a sledgehammer) provides surface wave data. To perform a passive survey, noise from ambient energy sources (such as traffic or wind) provides surface wave data.

As explained in the Geometrics SeisImager/SW Manual, the investigation depth for active surveys is approximately half the spread length, and that for passive surveys is approximately equal to the spread length. Lower frequency Rayleigh waves can penetrate deeper and propagate faster than higher frequencies, providing deeper Vs soil surveys. Higher frequencies will provide higher resolution of data at shallower depths. An active survey emits and records higher frequency surface waves compared to passive surveys. When active and passive source files are combined by vertically stacking both sets of image data (as shown in Figure 3), two trends are merged naturally to make one continuous trend over a broader bandwidth (Park, et al. 2007). Therefore, a combination of both techniques will optimize resolution throughout the profile.

**Page 4 of 14** 



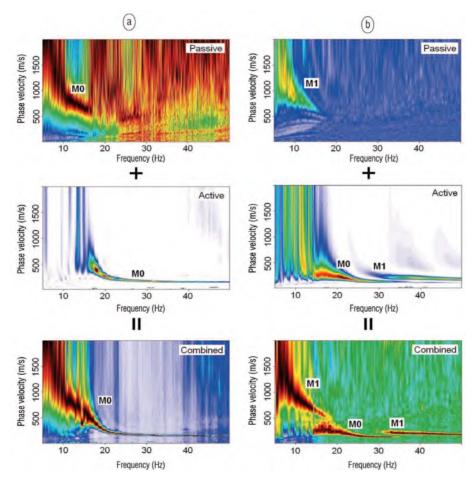


Figure 3. Dispersion images from passive and active sources are combined to enlarge dispersion bandwidth.

# 2.4 Data Acquisition and Processing

To acquire and process data after equipment setup completion, a *Seismodule Controller* and *SeisImager/SW* software are used. Procedures for data acquisition are followed as outlined in the *Geometrics SeisImager/SW Manual*.

Parameters set in the *Seismodule Controller* for active and passive surveys are listed below. A few of these parameters are illustrated in Figure 4.

- Spread configuration Layout of receivers
- Receiver spread Distance between first and last receiver
- Receiver spacing Distance interval between each receiver
- Receiver type Method of collecting seismic energy
- Receiver count Amount of receivers
- Source-receiver offset Distance between source and first receiver
- Seismic source Method used for dynamic energy
- Sample interval Time between recorded samples
- Record length/count Allotted time for data acquisition (and number of files with MAM)
- Stacking Way to increase signal-to-noise ratio (with MASW) by layering "shots" (field records).

Page 5 of 14



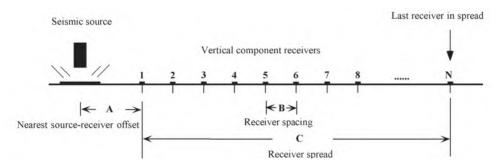


Figure 4. Three acquisition parameters for active source field configuration

Once parameters are set and first shot ran (for the MASW), a shot record displays all seismic waves in a tapered layout, indicative of dispersion (Figure 1). Further processing is performed within SeisImager/SW software using Pickwin and WaveEq modules (Figure 5). Within Pickwin the shot record waveform is converted into a phase velocity vs. frequency plot (Figure 1). In WaveEq the Dispersion Curve is displayed and optimized by removing any interference of noise (Figure 6a). Based on the Dispersion Curve, an initial model of Vs is back-calculated. Given the initial model, a best fit line using an iterative inversion with the Least Square Method is calculated to generate the Final one-dimensional (1D) Vs profile (Figure 6b) (Xia, Miller and Park, 1999).

Green points defining the dark grey shaded section of the Figure 6b represent the best indicator of the reliable depth range of penetration calculated using one-third wavelength approximation. Geophone reception of frequency vibrations will reach a depth limit when attenuation (loss of energy) is too large. Survey results for depths below the dark grey shaded section generally tend to yield poor accuracy and may not represent a true representation of the Vs profile. Such depth ranges will be indicated by light grey shaded sections to call attention to use caution when interpreting the survey results. For a Combined Vs profile, respective Dispersion Curves for active and passive surveys are appended within *WaveEq* and processed.

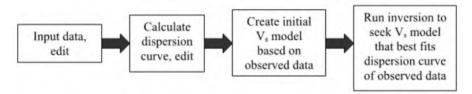


Figure 5. General processing flow using SeisImager/SW software.

Page 6 of 14



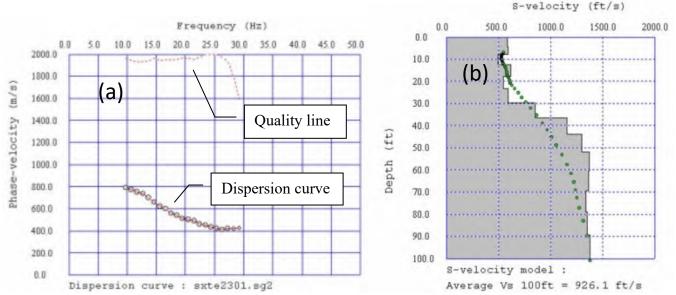


Figure 6. (a) Example of Dispersion Curve and Quality Line. Quality Line is used to assess Dispersion Curve quality based on signal amplitude. (b) Example of Final 1D Vs profile. Green points represent one-third wavelength approximation.

#### 2.5 Results

The field data collection for the Surface-wave Analysis was conducted at the subject project site on 04/21/2023 and 04/26/2023. A total of 4 survey lines (Line 1 to Line 4) were surveyed using both active (MASW) and passive (MAM) sources. Figures 7 through 10 show aerial views of the approximate location of the survey lines. Site pictures for Line 1 to Line 4 are shown in Figures 12 to 15.

Data from this survey was recorded using 24 vertical-component 4.5 Hz geophones coupled to the ground using spikes. For each survey, the geophones were equally spaced 5 feet apart along a 115-foot linear spread. For active source surveys, an 8-pound sledgehammer with a shot on a strike plate, placed at an offset of 23 feet, provided dynamic energy. Multiple shots were made at each survey line to stack data. The record length was 1.0 second with a 0.5-millisecond sample interval. For passive source surveys, a minimum of 20 records of ambient energy were compiled for each survey line. The record length was 8 seconds with a 2.0-millisecond sample interval.

The raw data collected in the field was processed in the CME office, by the undersigned Engineer. Dispersion Curves for active and passive source surveys at each survey line were combined to create a Final 1D Vs Profile.

Please note, the data processing for the 3 lines surveyed on 04/21/2023 revealed unreliable/unrealistic results, possibly caused by soft and wet ground conditions noted at the energy source location, as a result of rain earlier that week. Therefore, the Dispersion Curve and 1D Vs Profile for these 3 survey lines are not presented in this report.

The grade surface at the energy source for the survey along Line 4, conducted on 04/26/2023, was noted to be relatively dry and firm. The Dispersion Curve and 1D Vs Profile for Line 4 is presented in Figure 11. The survey at this location yielded better and more reliable data compared to that of the 04/21/2023 survey. However, this data is insufficient to characterize the entire site, relative to its shear wave velocity profile. CME recommends that additional MASW surveys and/or Vs profiling via CPT (Cone Penetration Test) be conducted as part of the Phase 2 exploration.

Page 7 of 14



CME will utilize the shear wave velocity profile given in Figure 11, and the additional shear wave velocity profiles to be obtained during the Phase 2 exploration to determine Site Class, in accordance with Section 20.4.1 of ASCE 7.

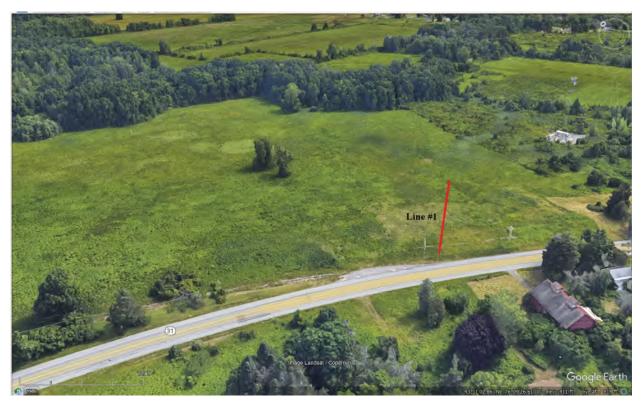


Figure 7. Approximate Location of Surface-wave Analysis Survey Line 1



Figure 8. Approximate Location of Surface-wave Analysis Survey Line 2

Page 8 of 14





Figure 9. Approximate Location of Surface-wave Analysis Survey Line 3



Figure 10. Approximate Location of Surface-wave Analysis Survey Line 4

Page 9 of 14



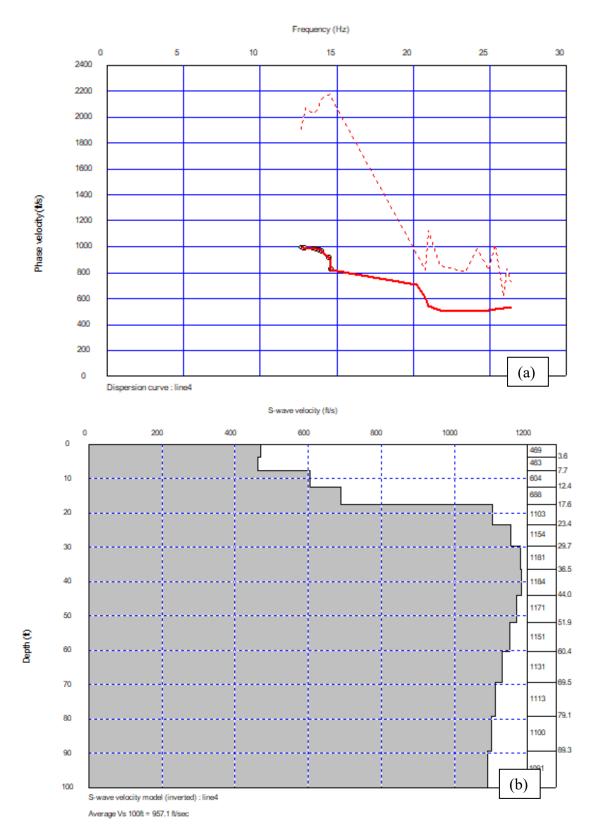
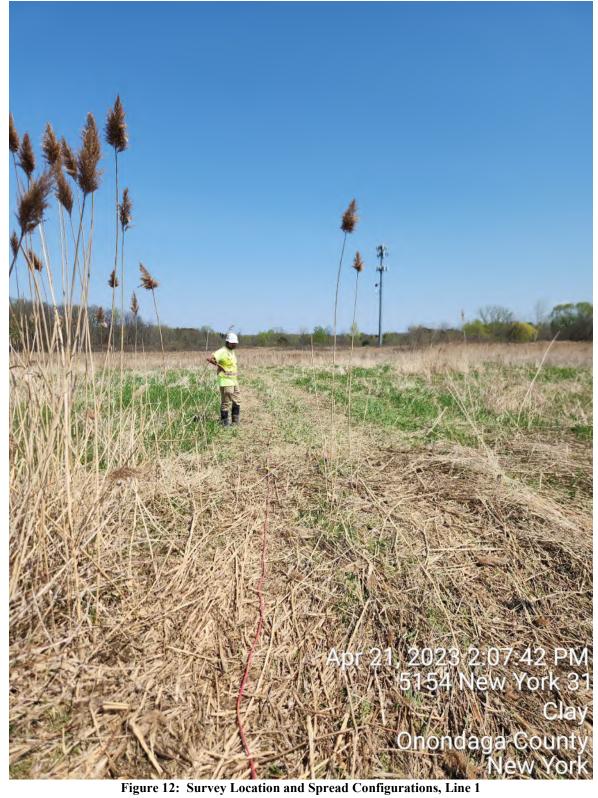


Figure 11. Survey Line 4: (a) Dispersion Curve (b) 1D Vs Profile.

Please note, as explained in Report Section 2.4, dark grey shaded section of the above Vs Profile represents the best indicator of the reliable depth range of wave penetration for the model. The light grey shaded sections (if any) represent ranges of depth where results are generally less accurate and/or unreliable, and thus, caution shall be exercised when interpreting the survey results.

CME Report No.: 28062N-01-0523 Page 10 of 14





Page 11 of 14





Figure 13: Survey Location and Spread Configurations, Line 2

CME Report No.: 28062N-01-0523 Page 12 of 14





Figure 14: Survey Location and Spread Configurations, Line 3

Page 13 of 14



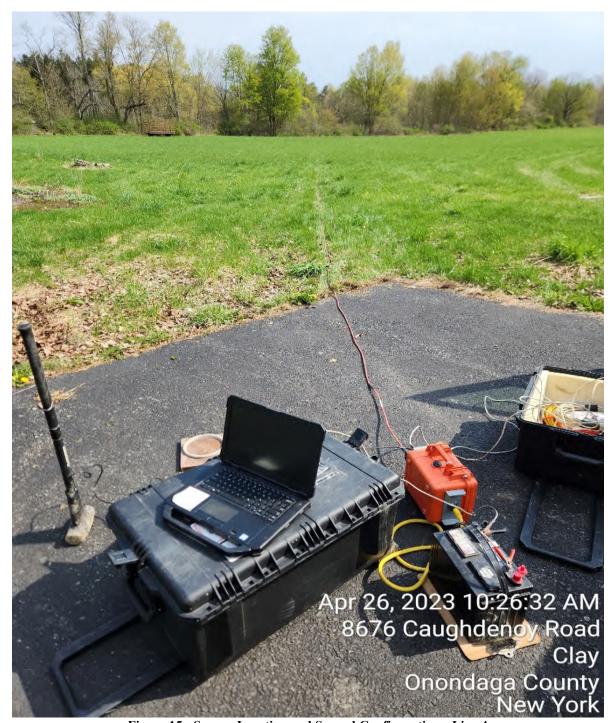


Figure 15: Survey Location and Spread Configurations, Line 4

# 3.0 CLOSING COMMENTS

The interpretation presented in this report is based on observed geophysical responses obtained during the test procedure and data processing.

We have endeavored to conduct these services in a manner consistent with the level of care and skill ordinarily exercised by members of the geotechnical engineering profession, practicing contemporaneously under similar conditions in the locality of the project. No other representation, express or implied is made. Under no circumstances is any warranty, express or implied, made in connection with the providing of geotechnical engineering services.

CME Report No.: 28062N-01-0523

Page 14 of 14



If you have any questions regarding the information presented in this report, please contact our office.

Respectfully Submitted, CME Associates, Inc.

Reviewed By, CME Associates, Inc.

Chen Liu, Ph.D., EIT Geotechnical Engineer

Anas N. Anasthas, P.E. Senior Geotechnical Engineer

#### References:

Park, C., Miller, R. and Xia, J., 1999. Multichannel Analysis of Surface waves. Available at:

< <a href="ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/S-TR284-G64n31999ParkMASW.pdf">ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/S-TR284-G64n31999ParkMASW.pdf</a> [Accessed 24 September 2018].

Park, C. and Miller, R., 2004. MASW to Map Shear-Wave Velocity of Soil. Available at:

< http://www.kgs.ku.edu/Geophysics/OFR/2004/OFR04 30/ofr04 30 text.pdf>

[Accessed 30 September 2018].

Park, C., Miller, R., Xia, J. and Ivanov, J., 2007. Multichannel Analysis of Surface Waves (MASW) – Active and Passive Methods. Available at:

< <a href="ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE26n12007_Park-Miller-Xia-Ivanov.pdf">ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE26n12007_Park-Miller-Xia-Ivanov.pdf</a> [Accessed 28 September 2018].

Xia, J., Miller, R. and Park, C., 1999. Estimation of Near-Surface Shear Wave Velocity by Inversion of Rayleigh Waves. Available at:

< <a href="ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/S-TR283-G64n31999XiaMASW.pdf">ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/S-TR283-G64n31999XiaMASW.pdf</a> [Accessed 25 September 2018].

Xia, J., Miller, R., Park, C. and Ivanov, J., 2004. Utilization of High Frequency Rayleigh Waves in Near-Surface Geophysics. Available at:

< <a href="ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE23n82004_Xia-Miller-Park-Ivanov.pdf">ftp://geom.geometrics.com/pub/seismic/Literature/SurfaceWaves/KGS/TLE23n82004_Xia-Miller-Park-Ivanov.pdf</a> [Accessed 27 September 2018].

## INFILTRATION TEST REPORT



						Test ID	IT-	<u>-1</u>					
Project:	Micror	ı Camp	us						E Report No.:	28062	B-01-0:	523R1	
	Clay, NY						Test Date:			-			
Client:								Т	est Location:			on Location 1	Plan
									Technician:				
Test Prep	paratio	n and l	Dimensions										
	(	Casing 1	Installed in:		Test Pi	t		V	Borehole				
	Casing I	Diamete	er and Type:	<b>4</b> i	inch I.D	O. HDPE	_						
A	Fristin	o Grad	e Flevation (1	<del></del>							418.8		
	A Existing Grade Elevation (ft): 418.8  B Casing Stickup Length Above Grade (ft): 2.8												
	_		Elevation (ft								421.6	•	
	-	_	om of Test Ho	-					` ′ ,		6.5	•	
•	_		st Hole Eleva		_						415.1	ı	
									and cmf SAN	D, som	e CLA	Ý	
			ype of Scour/						3" of Pe				
	Date ar	nd Time	e Pre-Soaked	:			05/1	6/23	Time:	14:	:05		
	Depth	to Wate	er Level, Belo	ow Top	of Casi	ing						•	
		Just	After Pre-So	ak Fillii	ng (ft):	4.50							
		Just Pr	ior to First Te	est Filli	ng (ft):	5.20		Date:	5/17/2023		Time:	11:20	
Test Obs	ervatio	<u>ns</u>											
Run 1 Run			n 2		Rui	n 3		Run	1 4				
			p 70			p			p			F	
	0	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)		Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)		Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)		Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	
	ime m)	zd T	to V Be	ime m)	zd T	to v Be f Ca	ime m)	T ps	to V Be	ime m)	zd T	to 1 Be	
	Real Time (hh:mm)	Elapsed (h:mm)	Depth Level, Top o	Real Time (hh:mm)	Elapsed (h:mm)	Depth to Wate Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed (h:mm)	Depth to Wate Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed (h:mm)	Depth to Wat Level, Below Top of Casing (feet)	
				Re (h		T L D	Re (h		Q J J J	Re (h		T Le	
	11:22	0:00	4.50		0:00			0:00			0:00		
	11:23	0:01	4.50		0:01			0:01			0:01		
	11:24	0:02	4.50		0:02			0:02			0:02		
	11:25	0:03	4.50		0:03			0:03			0:03		
	11:27	0:05	4.50		0:05			0:05			0:05		
	11:32	0:10	4.50		0:10			0:10			0:10		
	11:37	0:15	4.50		0:15			0:15			0:15		
	11:52	0:30	4.50		0:30			0:30			0:30		
	12:07	0:45	4.50		0:45			0:45			0:45		
	12:22	1:00	4.50		1:00			1:00			1:00		i
Test Resu	ılts												
					Run:	Run 1	Ru	n 2	Run 3	Ru	n 4		
		I	nfiltration Ra	te (feet		0.00							
		Infi	ltration Rate	(inches	/hour):	0.00							
	Final Infiltration Rate (inches/hour): D.00 Based on average of all four runs												
Note(=)	Based on result of last run												
	Note(s)  1. Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.												
1	2. Test Pipe installed near Test Boring B-129												

## INFILTRATION TEST REPORT



Test ID: IT-2													
Project:	Micron	1 Camp	us					CME	E Report No.:	28062	B-01-0:	523R1	
	Clay, 1								Test Date:				
Client:	Rambo	oll						Т	est Location:			on Location I	Plan
									Technician:	S.Yum	usak		
Test Prep	<u>paratio</u>	n and l	<u>Dimensions</u>										
	(	Casing 1	Installed in:		Test Pi	t		<b>V</b>	Borehole				
(	Casing I	Diamete	er and Type:	<b>4</b> i	inch I.D	). HDPE							
		-	p Length Abo	-							394.6	-	
			g Elevation (ft								397.6	•	
1	-	_	om of Test Ho	*							7.3	•	
			st Hole Eleva								390.3	•	
L									cd SILT, little			•	
			ype of Scour/						3" of Pe				
			e Pre-Soaked			•			Time:			•	
			er Level, Belo				03/1	0/23	. I line.	13	.13	•	
	Берш		After Pre-So	_		-							
			ior to First Te			5.30		Date	5/17/2023		Time:	9:47	
					<u> </u>	3.30	•	Date.	3/17/2023	•	<u> </u>		
Test Observations													
		Rur	n 1		Rur	n 2	Run 3		Run 4				
			er 3			er er			er er			er er	
	0	ïme	Wat low ısing	0	ime	Wat low ısing	0	ime	Wat Iow Ising	0	ime	Wat low Ising	
	im m)	rd T	to't Be fC2	m) m)	T ps	to' Be fCz	m) m)	T ps	to Be	ıı Ü	T ps	to Be	
	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	
				Re (h)		Te De	Re (h)		<u> </u>	<u>R</u>		<u> </u>	
	9:47	0:00	5.30		0:00			0:00			0:00		
	9:48	0:01	5.30		0:01			0:01			0:01		
	9:49	0:02	5.30		0:02			0:02			0:02		
	9:50	0:03	5.30		0:03			0:03			0:03		
	9:52	0:05	5.30		0:05			0:05			0:05		
	9:57	0:10	5.30		0:10			0:10			0:10		
	10:02	0:15	5.30		0:15			0:15			0:15		
	10:17	0:30	5.30		0:30			0:30			0:30		
	10:32	0:45	5.30		0:45			0:45			0:45		
	10:47	1:00	5.30		1:00			1:00			1:00		
TD 4.75													
Test Resi	ults												
					Run:	Run 1	Ru	n 2	Run 3	Ru	n 4		
	Infiltration Rate (feet/hour): 0.00												
		Infi	Itration Rate	(inches	/hour):	0.00							
	Fina	_ <del></del>   Infilt:	ation Rate (	inches/	hour).	0.00			Based on ave	erage of	f all fou	ır rııns	
	Final Infiltration Rate (inches/hour): 0.00 Based on average of all four runs Based on result of last run												
Note(s)	Note(s)												
	NOTE(S)  Test performed in general conformance with NYS Stormwater Management Design Manual, Appendix D: Infiltration Testing Requirements.												
	2. Test Pipe installed near Test Boring B-24												

## INFILTRATION TEST REPORT



	1					Test ID:	IT-	3					
Project:	Micron	ı Camp	us, Clay					CME	E Report No.:	280621	B-01-0:	523R1	
	Clay, NY						Test Date:	05/17/2	23		-		
Client:	Rambo	 oll						Т	est Location:			on Location	Plan
									Technician:	S.Yum	usak		
Test Pre	paratio	n and l	<u>Dimensions</u>										
		_	Installed in:		Test Pi			$\checkmark$	Borehole				
(	Casing Diameter and Type: 4 inch I.D. HDPE												
A	A Existing Grade Elevation (ft):												
		_	p Length Abo	-							1.0		
									(A+B)=		390.3		
			om of Test Ho								6.0		
Е	Botton	of Tes	st Hole Elevat	ion:					(C-D)=		384.3		
	Burmi	ster Cla	ssification of	Soil at	Botton	n of Hole:	Light I	3rown/	Grey SILT, li	ttle CL	AY		
	Thickr	ess&T	ype of Scour/	Sedime	nt Prote	ection Layer	Installe	d:	3" of Pe	a Grav	el		
			e Pre-Soaked:				05/1	6/23	Time:	14:	:40		
	Depth		er Level, Belo			_							
			After Pre-Soa										
		Just Pr	ior to First Te	st Filli	ng (ft):	3.70		Date:	5/17/2023		Time:	12:20	
Test Observations													
		Rur	n 1		Rur	n 2	Run 3			Run 4			
		•	er			is a			er		•	er	
	မ	ime	Wat low asin	ပ	ime	Wat low asin	ပ	ime	Wat low asin	မ	ime	Wat low asin,	
	Fim m)	ed T n)	n to , Be f Ca	Fim m)	ed J	, Be f C	Fim m)	ed J	n to , Be of Ca	Fim m)	ed J n)	n to , Be if Ca	
	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	Real Time (hh:mm)	Elapsed Time (h:mm)	Depth to Water Level, Below Top of Casing (feet)	
				R (t			R (t		DJĻ	R (t		D L T	
	12:26	0:00	4.00		0:00			0:00			0:00		
	12:27	0:01	4.00		0:01			0:01			0:01		
	12:28	0:02	4.00		0:02			0:02			0:02		
	12:29	0:03	4.00		0:03			0:03			0:03		
	12:31	0:05	4.00		0:05			0:05			0:05		
	12:36	0:10	4.00		0:10			0:10			0:10		
	12:41 12:56	0:15	4.00		0:15			0:15			0:15		
		0:30	4.00		0:30			0:30					
	13:11	1:00	4.00		1:00			1:00			0:45 1:00		
		1.00	4.00		1.00			1.00			1.00		
Test Resi	<u>ults</u>												
					Run:	Run 1	Ru	n 2	Run 3	Ru	n 4		
		I	nfiltration Ra	te (feet	hour):	0.00							
	Infiltration Rate (inches/hour): 0.00												
	Fina	l Infiltr	ation Rate (i	inches/	hour):	0.00			Based on ave	rage of	fall fou	r runs	
	Based on result of last run												
Note(s)													
Test perfor     Test Pipe i				S Stormw	ater Mana	gement Design M	anual, Ap	pendix D:	Infiltration Testin	g Require	ments.		

#### **Bedrock Core Photographs**

Attachment to CME Report No: 28062B-01-0523



Photograph 1

Boring:

B-227

Run 1

Depth 24.0' - 29.0' See Photograph Nos. 2 and 3 for detailed views.



Photograph 2

B-227

Run 1

Top

Depth

24.0' - 26.5'



Photograph 3

B-227

Run 1

Bottom

Depth

26.5' - 29.0'

#### **Bedrock Core Photographs**

Attachment to CME Report No: 28062B-01-0523



Photograph 4

Boring:

B-41

Run 1

Depth

4.3' - 9.3'

See Photograph Nos. 5 and 6 for detailed views.



Photograph 5

B-41

Run 1

Top

Depth

4.3' - 6.8'



Photograph 6

B-41

Run 1

Bottom

Depth

6.8' - 9.3'

## **Bedrock Core Photographs**

Attachment to CME Report No: 28062B-01-0523



Photograph 7

Boring:

B-129

Run 1 Depth

29.8' - 34.8'



6035 Corporate Drive East Syracuse, New York 13057 (315) 701-0522 (315) 701-0526 (Fax)

www.cmeassociates.com

# LABORATORY TEST SUMMARY Micron Campus, Clay, New York Ramboll CME Report No.: 28062L-01-0523 May 15, 2023 Page 1 of 11

CME Representatives obtained soil and rock samples from Test Borings advanced as part of the Subsurface Exploration Program conducted for the subject project. Selected samples were delivered to CME's East Syracuse facility, an AASHTO re:source¹ accredited laboratory for various laboratory testing. The results are presented below:

Sample ID Notations: B - Test Boring, S - Sample, R - Run

#### I. Natural Moisture Content (ASTM D2216)

Sample ID	Natural Moisture	Sample ID	Natural Moisture
	(%)		(%)
B-24; S-1B	25.9	B-135; S-1A	39.2
B-24; S-2	27.1	B-135; S-1B	21.5
B-24; S-3	28.2	B-135; S-2	8.9
B-24; S-4	24.0	B-135; S-3	10.0
B-24; S-5	20.2	B-135; S-4A	11.5
B-24; S-6A	22.2	B-135; S-4B	7.0
B-24; S-6B	12.5	B-135; S-5	6.7
B-24; S-7	3.1	B-135; S-6A	5.8
B-24; S-8	6.0	B-135; S-6B	12.0
B-42; S-2	15.3	B-135; S-7	4.5
B-43; S-2	17.4	B-136; S-2	19.4
B-50; S-2	10.8	B-136; S-3	20.3
B-229; S-2	27.4	B-129; S-2	28.4
B-23; S-3	36.2	B-129; S-3	30.0
B-226; S-2	27.7	B-132; S-2	16.2
B-134; S-2	11.0	B-132; S-3	17.9
B-134; S-3	6.4		

¹AASHTO re:source – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. <a href="https://www.AASHTOresource.org">www.AASHTOresource.org</a>.

Page 2 of 11



# II. Atterberg Limits Testing (ASTM D4318)

			Plasticity	Natural Moisture
Sample ID	Liquid Limit	Plastic Limit	Index	(%)
B-24; S-1B	41	23	18	25.9
B-24; S-2	28	21	7	27.1
B-129; S-2	27	18	9	28.4
B-226; S-2	33	20	13	27.7
B-229; S-2	25	19	6	27.4

# III. Organic Content (ASTM D2974)

Sample ID	Organic Content (%)
B-23; S-3	5.0
B-226; S-2	3.0

# IV. Soil Sulfates (AASHTO T290) and Chlorides (AASHTO T291)

Four soil samples were shipped to Geotechnics for Sulfate and Chloride testing. Please see attached *Geotechnics Reports* for testing results.

Page 3 of 11

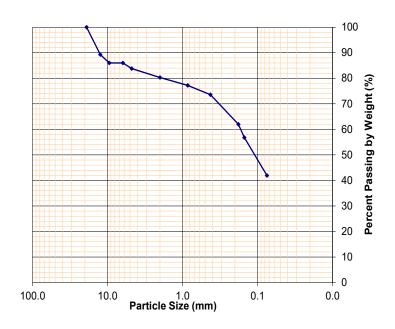
# V. Particle Size Analysis (ASTM D422)

<u>Sample #</u> B-42; S-2



<u>Classification</u>
Light Brown SILT and cmf SAND, little mf GRAVEL
<u>Grain Size Distribution Curve</u>

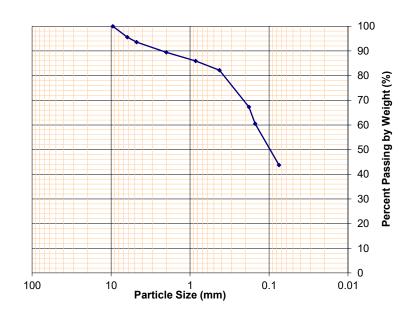
		% Passing
Sieve	Sieve Size	by Dry
<b>Designation</b>	<u>(mm)</u>	Weight
3/4"	19.0	100
1/2"	12.5	89
3/8"	9.5	86
1/4"	6.25	86
No.4	4.75	84
No.10	2.00	80
No.20	0.850	77
No.40	0.425	74
No.80	0.180	62
No.100	0.150	57
No.200	0.075	42



<u>Sample #</u> B-43; S-2

% Passing by Dry Sieve **Sieve Size** Designation (mm) Weight 3/8" 9.5 100 1/4" 6.25 96 4.75 94 No.4 89 No.10 2.00 No.20 0.850 86 0.425 82 No.40 No.80 0.180 67 No.100 0.150 60 0.075 44 No.200

Classification
Light Brown cmf SAND and SILT, trace fine GRAVEL
Grain Size Distribution Curve



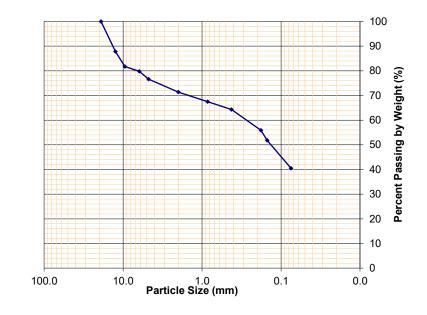
Page 4 of 11

CME Associates, Inc.

Sample # B-50; S-2

<u>Classification</u>
Light Brown SILT and cmf SAND, some mf GRAVEL
<u>Grain Size Distribution Curve</u>

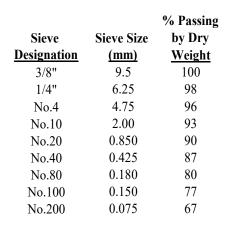
Sieve Designation	Sieve Size (mm)	% Passing by Dry Weight
3/4"	19.0	100
1/2"	12.5	88
3/8"	9.5	82
1/4"	6.25	80
No.4	4.75	77
No.10	2.00	71
No.20	0.850	67
No.40	0.425	64
No.80	0.180	56
No.100	0.150	52
No.200	0.075	40

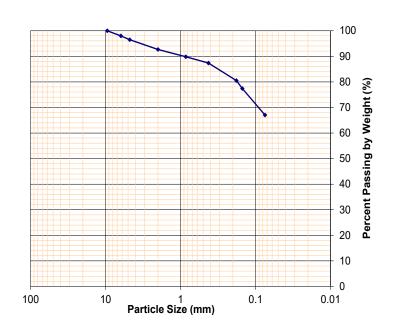


<u>Sample #</u> B-132; S-2

 $\frac{\text{Classification}}{\text{Light Brown SILT, some cmf SAND, trace CLAY, trace fine}}$   $\frac{\text{GRAVEL}}{\text{GRAVEL}}$ 

#### **Grain Size Distribution Curve**





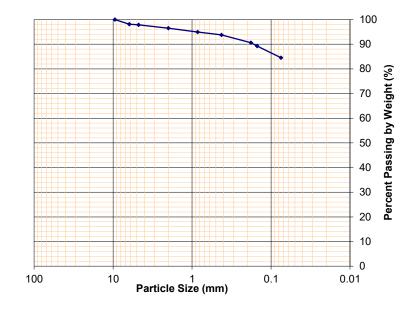
Page 5 of 11



<u>Sample #</u> B-132; S-3

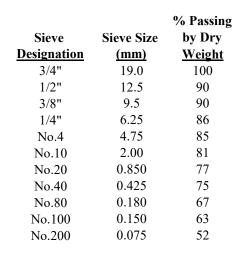
Classification
Light Brown SILT, little cmf SAND, trace CLAY, trace fine GRAVEL
Grain Size Distribution Curve

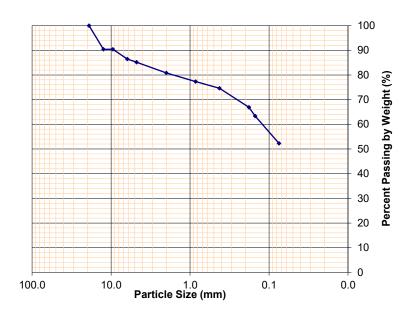
		% Passing
Sieve	Sieve Size	by Dry
<b>Designation</b>	<u>(mm)</u>	Weight
3/8"	9.5	100
1/4"	6.25	98
No.4	4.75	98
No.10	2.00	96
No.20	0.850	95
No.40	0.425	94
No.80	0.180	91
No.100	0.150	89
No.200	0.075	85



<u>Sample #</u> B-134; S-2

Classification
Brown SILT, some cmf SAND, little mf GRAVEL
Grain Size Distribution Curve





Page 6 of 11



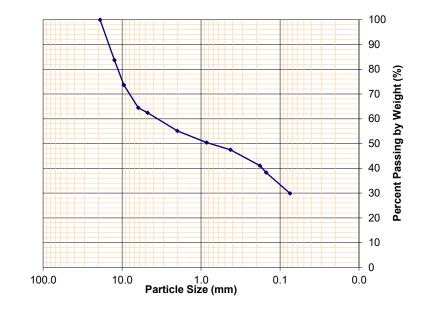
<u>Sample #</u> B-134; S-3

Classification

Brown mf GRAVEL, some cmf SAND, some SILT, trace CLAY

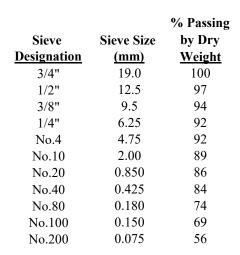
Grain Size Distribution Curve

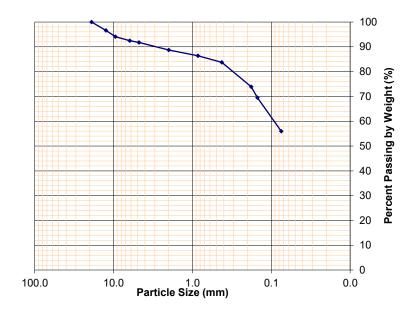
		% Passing
Sieve	Sieve Size	by Dry
<b>Designation</b>	<u>(mm)</u>	Weight
3/4"	19.0	100
1/2"	12.5	84
3/8"	9.5	74
1/4"	6.25	64
No.4	4.75	62
No.10	2.00	55
No.20	0.850	50
No.40	0.425	48
No.80	0.180	41
No.100	0.150	38
No.200	0.075	30



<u>Sample #</u> B-136; S-2

Classification
Brown SILT and cmf SAND, trace mf GRAVEL, trace CLAY
Grain Size Distribution Curve





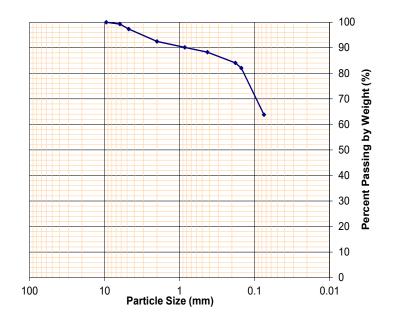
Page 7 of 11



<u>Sample #</u> B-136; S-3

<u>Classification</u>
Brown SILT, some cmf SAND, trace fine GRAVEL
<u>Grain Size Distribution Curve</u>

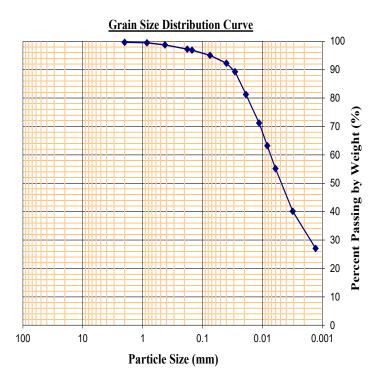
Sieve	Sieve Size	% Passing by Dry
<b>Designation</b>	(mm)	Weight
3/8"	9.5	100
1/4"	6.25	99
No.4	4.75	97
No.10	2.00	92
No.20	0.850	90
No.40	0.425	88
No.80	0.180	84
No.100	0.150	82
No.200	0.075	64



<u>Sample #</u> B-24; S-1B

Classification
Brown SILT and CLAY, trace mf SAND

Sieve <u>Designation</u>	Sieve Size (mm)	Percent Passing by Weight (%)
No.10	2.00	100
No.20	0.850	99
No.40	0.425	99
No.80	0.180	97
No.100	0.150	97
No.200	0.075	95
Hydrometer	0.040	92
	0.029	89
	0.019	81
	0.011	71
	0.008	63
	0.006	55
	0.003	40
	0.001	27



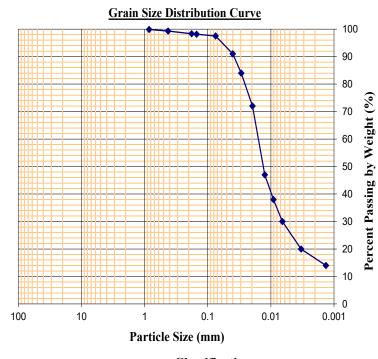
Page 8 of 11



<u>Sample #</u> B-24; S-2

<u>Classification</u>
Brown SILT, some CLAY, trace mf SAND

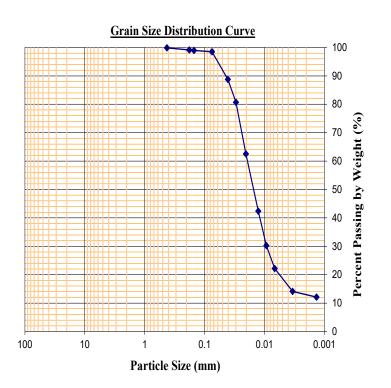
Sieve <u>Designation</u>	Sieve Size (mm)	Percent Passing by Weight (%)
No.20	0.850	100
No.40	0.425	99
No.80	0.180	98
No.100	0.150	98
No.200	0.075	98
Hydrometer	0.040	91
	0.029	84
	0.020	72
	0.012	47
	0.009	38
	0.007	30
	0.003	20
	0.001	14



<u>Sample #</u> B-24; S-3

<u>Classification</u>
Brown SILT, some CLAY, trace fine SAND

Sieve <u>Designation</u>	Sieve Size (mm)	Percent Passing by Weight (%)
No.40	0.425	100
No.80	0.180	99
No.100	0.150	99
No.200	0.075	99
Hydrometer	0.041	89
	0.030	81
	0.020	63
	0.013	42
	0.009	30
	0.007	22
	0.003	14
	0.001	12



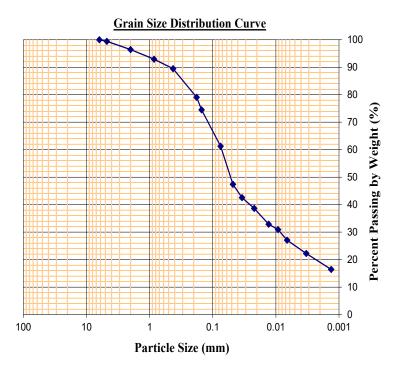
Page 9 of 11



<u>Sample #</u> B-129; S-2

<u>Classification</u>
Light Brown cmf SAND and SILT, some CLAY, trace fine GRAVEL

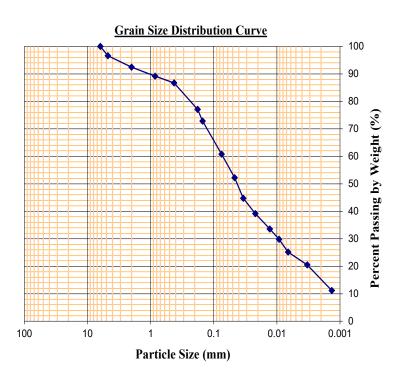
Sieve	Sieve Size	Percent Passing
<b>Designation</b>	<u>(mm)</u>	by Weight (%)
1/4"	6.25	100
No.4	4.75	99
No.10	2.00	96
No.20	0.850	93
No.40	0.425	89
No.80	0.180	79
No.100	0.150	75
No.200	0.075	61
Hydrometer	0.048	47
	0.034	43
	0.022	39
	0.013	33
	0.009	31
	0.007	27
	0.003	22
	0.001	16



<u>Sample #</u> B-129; S-3

<u>Classification</u>
Brown SILT and cmf SAND, some CLAY, trace fine GRAVEL

Sieve Designation	Sieve Size (mm)	Percent Passing by Weight (%)
1/4"	6.25	100
No.4	4.75	97
No.10	2.00	92
No.20	0.850	89
No.40	0.425	87
No.80	0.180	77
No.100	0.150	73
No.200	0.075	61
Hydrometer	0.047	52
	0.034	45
	0.022	39
	0.013	34
	0.009	30
	0.007	25
	0.003	21
	0.001	11



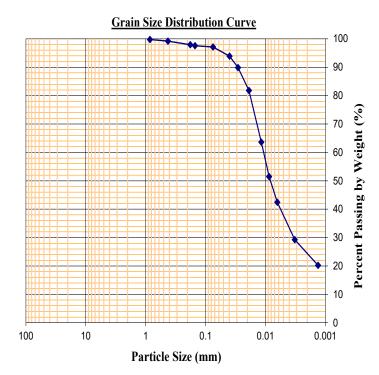
Page 10 of 11



<u>Sample #</u> B-226; S-2

<u>Classification</u>
Light Brown/Grey SILT and CLAY, trace mf SAND

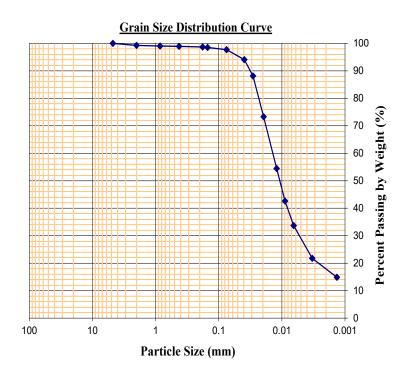
Sieve <u>Designation</u>	Sieve Size (mm)	Percent Passing by Weight (%)
No.20	0.850	100
No.40	0.425	99
No.80	0.180	98
No.100	0.150	98
No.200	0.075	97
Hydrometer	0.040	94
	0.029	90
	0.019	82
	0.012	64
	0.009	51
	0.006	42
	0.003	29
	0.001	20



<u>Sample #</u> B-229; S-2

<u>Classification</u>
Light Brown/Grey SILT, some CLAY, trace cmf SAND

Sieve <u>Designation</u>	Sieve Size (mm)	Percent Passing by Weight (%)
No.4	4.75	100
No.10	2.00	99
No.20	0.850	99
No.40	0.425	99
No.80	0.180	99
No.100	0.150	98
No.200	0.075	98
Hydrometer	0.039	94
•	0.029	88
	0.019	73
	0.012	54
	0.009	43
	0.006	34
	0.003	22
	0.001	15



Page 11 of 11



# VI. Rock Core Compression (ASTM D7012 Method C)

# **A) Testing Conditions:**

Tested by:	H.K.	Mo	isture Condition:	Laboratory air-dry	Equipment:	Forney QC-400-DR
Date of Test:	5/4/20	)23	Load Direction:	Generally	perpendicular	to laminations

## **B)** Core Identification and Location:

Core ID	Location	Description
B-227; R-1	'1 /1 '1 ? '1 /1 '1 ?	Grey DOLOSTONE, slightly weathered, medium to thickly bedded, hard, thin layers (<1/8") of SHALE interbedded
B-41; R-1A	1 7 1 1 1 1 2	Grey DOLOSTONE, slightly weathered, thinly to medium bedded, hard, thin layers (<1/4") of SHALE interbedded
B-41; R-1B	7.0' – 7.6'	Dark Grey SHALE, fresh, thinly bedded, medium hard

#### C) Core Measurements:

Core ID	Core Diameter (inch)	Length (in.)	Length to Diameter	Mass (g)	Density (lb./ft³)
B-227; R-1	1.99	4.24	2.13	583.96	169
B-41; R-1A	1.98	4.15	2.09	595.34	177
B-41; R-1B	1.99	4.35	2.18	623.57	176

# **D)** Compression Test Results:

Core ID	Specimen Area (inch²)	Total Load (lbs.)	Compressive Strength (psi)	Temperature (°C)	Time to Failure (seconds)	Rate of Loading (psi/sec)
B-227; R-1	3.11	51,500	16,560	22	68.50	242
B-41; R-1A	3.08	57,000	18,510	22	96.10	193
B-41; R-1B	3.11	77,500	24,920	22	120.49	207

If you have any questions regarding this report please contact our office.

Hannah Kloiber Laboratory Supervisor

#### Attachments:

Geotechnics Report, dated 05/10/2023 (5 of 5) Geotechnics Report, dated 05/12/2023 (5 of 5) Rock Compression Test Photographs (2 of 2)



May 10, 2023

Project No. 2023-294-001

Ms. Hannah Kloiber CME Associates. Inc. 6035 Corporate Drive East Syracuse, NY 13057

# **Transmittal Laboratory Test Results**

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens that were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectfully submitted, Geotechnics, Inc.

Nathan Melaro

**Director of Operations** 

We understand that you have a choice in your laboratory services and we thank you for choosing Geotechnics.



#### **CHLORIDE ION CONTENT IN SOILS**

AASHTO T 291 - 94 (2018) (Method B)

 Client:
 CME Associates, Inc.
 Boring No.:
 B129

 Client Reference:
 28062
 Depth (ft):
 2.0-4.0'

 Project No.:
 2023-294-001
 Sample No.:
 B129

 Lab ID:
 2023-294-001-001
 Description:
 Brown Soil

( - # 10 Sieve material )

#### **CHLORIDE STANDARD: CALIBRATION CURVE**

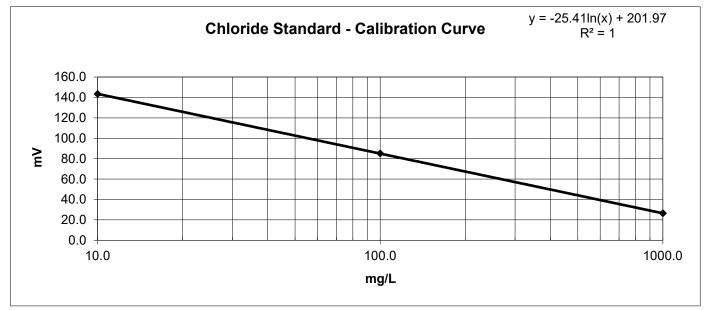
STANDARD		M <u>ILLIVOL</u> TS
		(mV)
10.0	mg/L	143.4
100.0	mg/L	85.1
1000.0	mg/L	26.4

#### **MEASUREMENT OF CHLORIDES**

Sample Weight (g):	100.0	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	100.0	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	25.0		
Sample Reading (mV):	174.3	2.97	2.97

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO₃ solution (1:1 volume).

2) Samples were dried for a minimum of 12 hours at 110 ⁺/₋ 5°C.



Notes:

Tested By JAM Date 5/9/23 Checked By TWV Date 5/10/23

page 1 of 1 DCN: CT-S63A DATE: 6/2/14 REVISION: 1



# Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

 Client:
 CME Associates, Inc.
 Boring No.:
 B129

 Client Reference:
 28062
 Depth (ft):
 2.0-4.0'

 Project No.:
 2023-294-001
 Sample No.:
 B129

 Lab ID:
 2023-294-001
 Soil Description:
 Brown Soil

#### **Sulfate Standard - Calibration Curve Spectrophotometer Readings**

Sulfate Ion Concentrations (mg/L)

0.0 4.0 10.0 20.0 30.0 40.0 60.0 80.0 100.0

**Spectrophotometer Readings (FAU)** 

Underrange Underrange 8 18 36 61 126 165 247

#### **Measurement of Barium Chloride Turbidity**

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl₂ 2H₂O)

Sample Weight (g): 100.0 Sample Moisture Content

Water added to Sample (mL):300.0Tare Number:673Size of Sample Aliquot (mL):50.0Weight of Tare & Wet Sample (g):177.92Sample Reading (FAU):65Weight of Tare & Dry Sample (g):176.67

Weight of Tare (g): 72.33

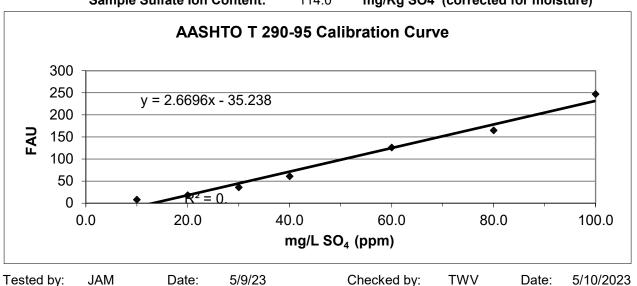
Sample Diluted: No Weight of Water (g): 1.25

Weight of Dry Sample (g): 104.34
Moisture Content (%): 1.20

Sulfate Solution Added (ml): 0

Sample Sulfate Ion Concentration: 37.55 mg/L SO₄ (ppm)

Sample Sulfate Ion Content: 112.6 mg/Kg SO₄ (not corrected for moisture)
Sample Sulfate Ion Content: 114.0 mg/Kg SO₄ (corrected for moisture)



page 1 of 1 DCN: CT-S87 DATE: 3/5/2020 REVISION: 1



#### **CHLORIDE ION CONTENT IN SOILS**

AASHTO T 291 - 94 (2018) (Method B)

 Client:
 CME Associates, Inc.
 Boring No.:
 B129

 Client Reference:
 28062
 Depth (ft):
 4.0-6.0'

 Project No.:
 2023-294-001
 Sample No.:
 B129

 Lab ID:
 2023-294-001-002
 Description:
 Brown Soil

( - # 10 Sieve material )

#### **CHLORIDE STANDARD: CALIBRATION CURVE**

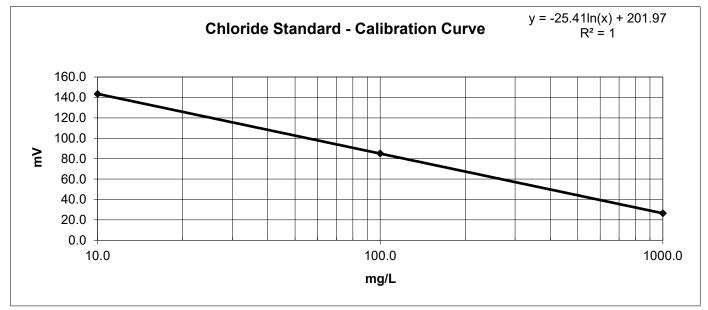
STANDARD		MILLIVOLTS
		(mV)
10.0	mg/L	143.4
100.0	mg/L	85.1
1000.0	mg/L	26.4

#### **MEASUREMENT OF CHLORIDES**

Sample Weight (g):	100.0	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	100.0	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	25.0		
Sample Reading (mV):	159.9	5.24	5.24

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO₃ solution (1:1 volume).

2) Samples were dried for a minimum of 12 hours at 110 ⁺/₋ 5°C.



Notes:

Tested By JAM Date 5/9/23 Checked By TWV Date 5/10/23



# Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

 Client:
 CME Associates, Inc.
 Boring No.:
 B129

 Client Reference:
 28062
 Depth (ft):
 4.0-6.0'

 Project No.:
 2023-294-001
 Sample No.:
 B129

 Lab ID:
 2023-294-001-002
 Soil Description:
 Brown Soil

#### **Sulfate Standard - Calibration Curve Spectrophotometer Readings**

Sulfate Ion Concentrations (mg/L)

0.0 4.0 10.0 20.0 30.0 40.0 60.0 80.0 100.0

**Spectrophotometer Readings (FAU)** 

Underrange Underrange 8 18 36 61 126 165 247

#### **Measurement of Barium Chloride Turbidity**

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl₂ 2H₂O)

Sample Weight (g): 100.0 Sample Moisture Content

Water added to Sample (mL):300.0Tare Number:888Size of Sample Aliquot (mL):50.0Weight of Tare & Wet Sample (g):230.46Sample Reading (FAU):29Weight of Tare & Dry Sample (g):230.18

Weight of Tare (g): 110.05

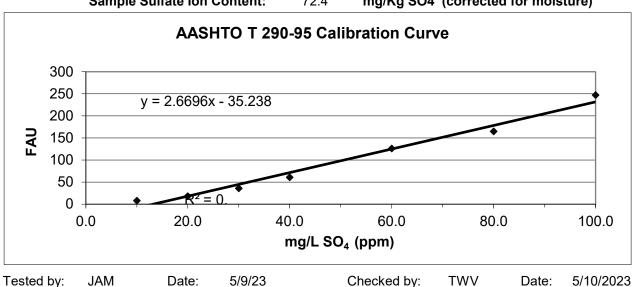
Sample Diluted: No Weight of Water (g): 0.28

Weight of Dry Sample (g): 120.13
Moisture Content (%): 0.23

Sulfate Solution Added (ml): 0

Sample Sulfate Ion Concentration: 24.06 mg/L SO₄ (ppm)

Sample Sulfate Ion Content: 72.2 mg/Kg SO₄ (not corrected for moisture) Sample Sulfate Ion Content: 72.4 mg/Kg SO₄ (corrected for moisture)



page 1 of 1 DCN: CT-S87 DATE: 3/5/2020 REVISION: 1



May 12, 2023

Project No. 2023-294-002

Ms. Hannah Kloiber CME Associates. Inc. 6035 Corporate Drive East Syracuse, NY 13057

# **Transmittal Laboratory Test Results**

Please find attached the laboratory test results for the above referenced project. The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens that were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectfully submitted, Geotechnics, Inc.

Nathan Melaro

**Director of Operations** 

We understand that you have a choice in your laboratory services and we thank you for choosing Geotechnics.



#### **CHLORIDE ION CONTENT IN SOILS**

AASHTO T 291 - 94 (2018) (Method B)

 Client:
 CME Associates, Inc.
 Boring No.:
 B-138

 Client Reference:
 28062
 Depth (ft):
 2.0-4.0'

 Project No.:
 2023-294-002
 Sample No.:
 B-138

 Lab ID:
 2023-294-002-001
 Description:
 Brow Soil

( - # 10 Sieve material)

#### **CHLORIDE STANDARD: CALIBRATION CURVE**

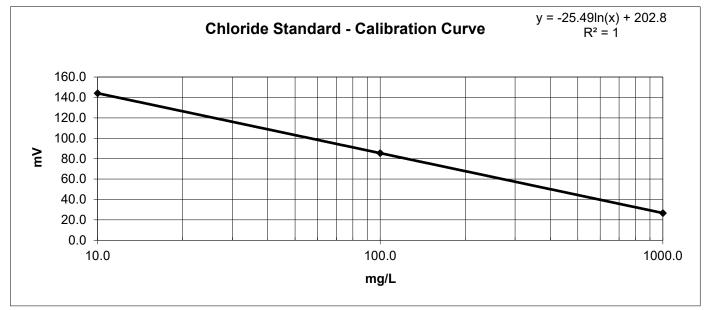
STANDARD		M <u>ILLIVOL</u> TS
		(mV)
10.0	mg/L	144.1
100.0	mg/L	85.4
1000.0	mg/L	26.7

#### **MEASUREMENT OF CHLORIDES**

Sample Weight (g):	100.0	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	100.0	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	25.0		
Sample Reading (mV):	161.5	5.05	5.05

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO₃ solution (1:1 volume).

2) Samples were dried for a minimum of 12 hours at 110 ⁺/₋ 5°C.



Notes:

Tested By JAM Date 5/10/23 Checked By BRB Date 5/12/23



# Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

 Client:
 CME Associates, Inc.
 Boring No.:
 B-138

 Client Reference:
 28062
 Depth (ft):
 2.0-4.0'

 Project No.:
 2023-294-002
 Sample No.:
 B-138

 Lab ID:
 2023-294-002-001
 Soil Description:
 Brown Soil

#### **Sulfate Standard - Calibration Curve Spectrophotometer Readings**

Sulfate Ion Concentrations (mg/L)

0.0 4.0 10.0 20.0 30.0 40.0 60.0 80.0 100.0

**Spectrophotometer Readings (FAU)** 

Underrange Underrange 7 22 39 65 112 173 225

#### **Measurement of Barium Chloride Turbidity**

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl₂ 2H₂O)

Sample Weight (g): 100.0 Sample Moisture Content

Water added to Sample (mL):300.0Tare Number:578Size of Sample Aliquot (mL):50.0Weight of Tare & Wet Sample (g):222.23Sample Reading (FAU):15Weight of Tare & Dry Sample (g):219.95

Weight of Tare (g): 83.79

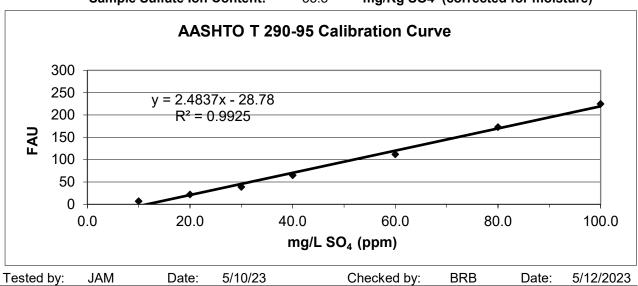
Sample Diluted: No Weight of Water (g): 2.28

Weight of Dry Sample (g): 136.16 Moisture Content (%): 1.67

Sulfate Solution Added (ml): 0

Sample Sulfate Ion Concentration: 17.63 mg/L SO₄ (ppm)

Sample Sulfate Ion Content: 52.9 mg/Kg SO₄ (not corrected for moisture)
Sample Sulfate Ion Content: 53.8 mg/Kg SO4 (corrected for moisture)



page 1 of 1 DCN: CT-S87 DATE: 3/5/2020 REVISION: 1



#### **CHLORIDE ION CONTENT IN SOILS**

AASHTO T 291 - 94 (2018) (Method B)

 Client:
 CME Associates, Inc.
 Boring No.:
 B-138

 Client Reference:
 28062
 Depth (ft):
 4.0-6.0'

 Project No.:
 2023-294-002
 Sample No.:
 B-138

 Lab ID:
 2023-294-002-002
 Description:
 Brow Soil

( - # 10 Sieve material )

#### **CHLORIDE STANDARD: CALIBRATION CURVE**

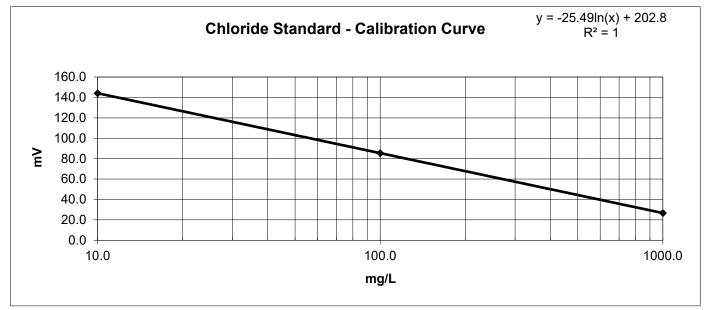
STANDARD		M <u>ILLIVOL</u> TS
		(mV)
10.0	mg/L	144.1
100.0	mg/L	85.4
1000.0	mg/L	26.7

#### **MEASUREMENT OF CHLORIDES**

Sample Weight (g):	100.0	CONCENTRATION	CONCENTRATION
Water added to Sample (ml):	100.0	(mg/L)	(mg/kg)
Size of Sample Aliquot (ml):	25.0		
Sample Reading (mV):	152.5	7.19	7.19

Notes: 1) Samples and standards were buffered by the addition of an equal volume of the 0.2 M KNO₃ solution (1:1 volume).

2) Samples were dried for a minimum of 12 hours at 110 ⁺/₋ 5°C.



Notes:

Tested By JAM Date 5/10/23 Checked By BRB Date 5/12/23



# Water-Soluble Sulfate Ion Content in Soil AASHTO T 290-95 (2020)

 Client:
 CME Associates, Inc.
 Boring No.:
 B-138

 Client Reference:
 28062
 Depth (ft):
 4.0-6.0'

 Project No.:
 2023-294-002
 Sample No.:
 B-138

 Lab ID:
 2023-294-002-002
 Soil Description:
 Brown Soil

#### **Sulfate Standard - Calibration Curve Spectrophotometer Readings**

Sulfate Ion Concentrations (mg/L)

0.0 4.0 10.0 20.0 30.0 40.0 60.0 80.0 100.0

**Spectrophotometer Readings (FAU)** 

Underrange Underrange 7 22 39 65 112 173 225

#### **Measurement of Barium Chloride Turbidity**

(Sample contains 5.0 mL NaCl solution and 0.3 g BaCl₂ 2H₂O)

Sample Weight (g): 100.0 Sample Moisture Content

Water added to Sample (mL):300.0Tare Number:542Size of Sample Aliquot (mL):50.0Weight of Tare & Wet Sample (g):227.29Sample Reading (FAU):19Weight of Tare & Dry Sample (g):224.51

Weight of Tare (g): 224.51 Weight of Tare (g): 81.62

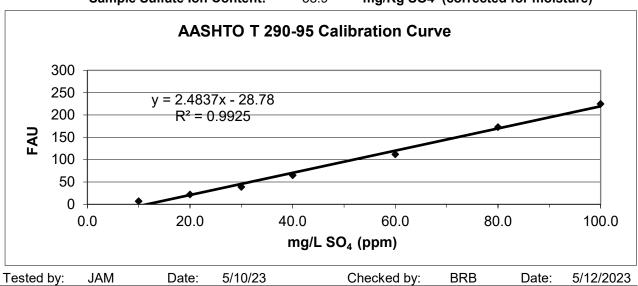
Sample Diluted: No Weight of Water (g): 2.78

Weight of Dry Sample (g): 142.89 Moisture Content (%): 1.95

Sulfate Solution Added (ml): 0

Sample Sulfate Ion Concentration: 19.24 mg/L SO₄ (ppm)

Sample Sulfate Ion Content: 57.7 mg/Kg SO₄ (not corrected for moisture)
Sample Sulfate Ion Content: 58.9 mg/Kg SO4 (corrected for moisture)



page 1 of 1 DCN: CT-S87 DATE: 3/5/2020 REVISION: 1





B-227; R-1 Before Compression (24.3' – 24.7')



B-227; R-1 After Compression (24.3' – 24.7')



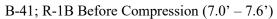
B-41; R-1A Before Compression (4.3' – 4.9')



B-41; R-1A After Compression (4.3' – 4.9')









B-41; R-1B After Compression (7.0' – 7.6')



6035 Corporate Drive East Syracuse, New York 13057 (315) 701-0522 (315) 701-0526 (Fax)

www.cmeassociates.com

# LABORATORY TEST SUMMARY Micron Campus, Clay, NY Ramboll CME Report No.: 28062L-02-0623

June 2, 2023 Page 1 of 3

CME Representatives obtained soil samples from Test Borings advanced as part of the Subsurface Exploration Program conducted for the subject project. Selected samples were delivered to CME's East Syracuse facility, an AASHTO re:source¹ accredited laboratory for various laboratory testing. The results are presented below:

Sample ID Notations: B - Test Boring, S - Sample

#### I. Natural Moisture Content (ASTM D2216)

Sample ID	Natural Moisture (%)
B-299A; S-1A	42.5
B-299A; S-1B	24.6
B-299A; S-2	30.7
B-299A; S-3	24.9
B-299A; S-4	21.3
B-299A; S-5	22.5
B-299A; S-6	23.0
B-299A; S-7	27.0
B-299A; S-8	27.9
B-299A; S-9	11.7
B-299A; S-10	13.0
B-299A; S-11	1.4

#### II. Atterberg Limits Testing (ASTM D4318)

			Plasticity	Natural Moisture
Sample ID	Liquid Limit	Plastic Limit	Index	(%)
B-299A; S-2	28	19	9	30.7
B-299A; S-7	20	15	5	27.0
B-299A; S-8	30	17	13	27.9

¹**AASHTO re:source** – American Association of State Highway & Transportation Officials (AASHTO) Materials Reference Laboratory, a Federal Agency having jurisdiction to assess laboratory competency according to the Standards of the United States of America. CME East Syracuse accreditation includes testing of Portland Cement Concrete, Aggregate and Soil Materials. www.AASHTOresource.org.

**Laboratory Test Summary** 

CME Report No.: 28062L-02-0623

Page 2 of 3

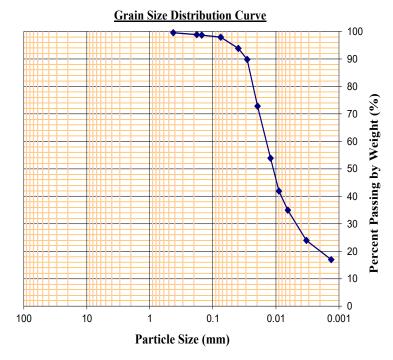
# III. Particle Size Analysis (ASTM D422)

<u>Sample #</u> B-299A; S-2



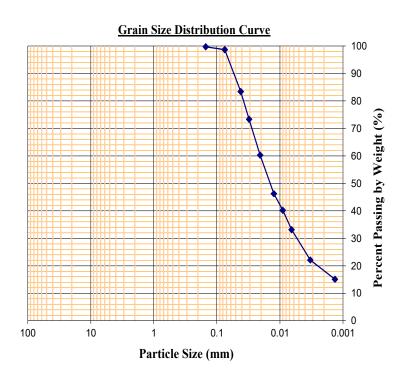
<u>Classification</u>
Brown SILT, some CLAY, trace fine SAND

Sieve	Sieve Size	<b>Percent Passing</b>
<b>Designation</b>	<u>(mm)</u>	by Weight (%)
No.40	0.425	100
No.80	0.180	99
No.100	0.150	99
No.200	0.075	98
Hydrometer	0.040	94
	0.029	90
	0.020	73
	0.012	54
	0.009	42
	0.006	35
	0.003	24
	0.001	17



<u>Sample #</u> B-299A; S-7 <u>Classification</u>
Grey SILT, some CLAY, trace fine SAND

Sieve <u>Designation</u>	Sieve Size (mm)	Percent Passing by Weight (%)
No.100	0.150	100
No.200	0.075	99
Hydrometer	0.042	83
	0.031	73
	0.021	60
	0.012	46
	0.009	40
	0.007	33
	0.003	22
	0.001	15



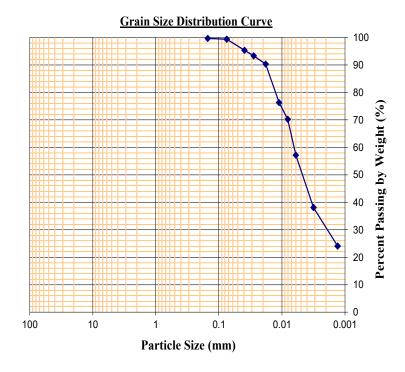
Page 3 of 3



<u>Sample #</u> B-299A; S-8

# <u>Classification</u> Grey CLAY and SILT, trace fine SAND

Sieve <u>Designation</u>	Sieve Size (mm)	Percent Passing by Weight (%)
No.100	0.150	100
No.200	0.075	99
Hydrometer	0.039	95
	0.028	93
	0.018	90
	0.011	76
	0.008	70
	0.006	57
	0.003	38
	0.001	24

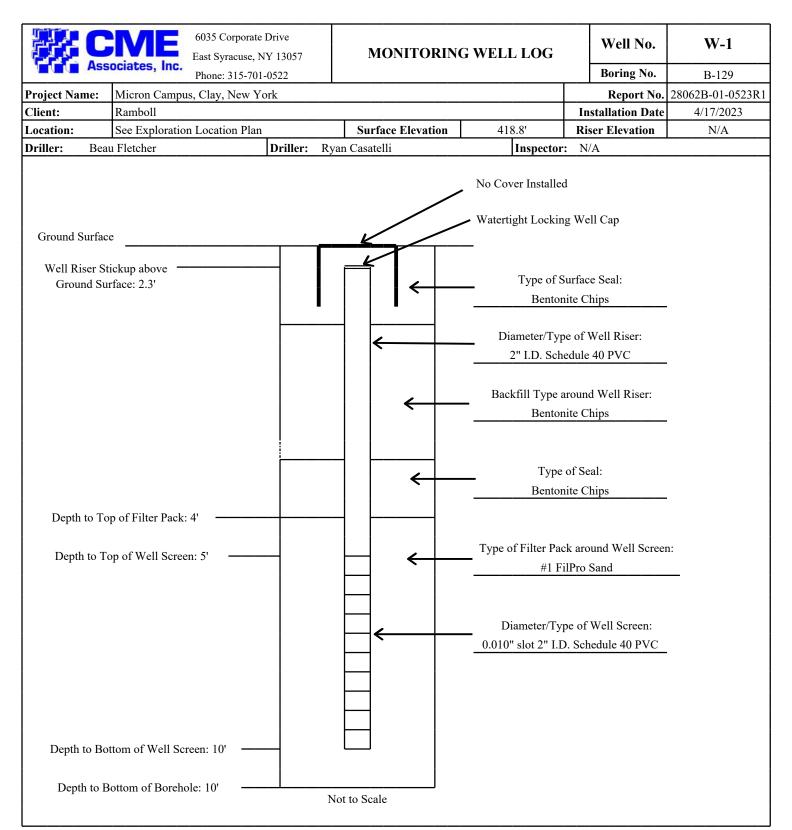


If you have any questions regarding this report, please contact our office.

Anas N. Anasthas, P.E.for

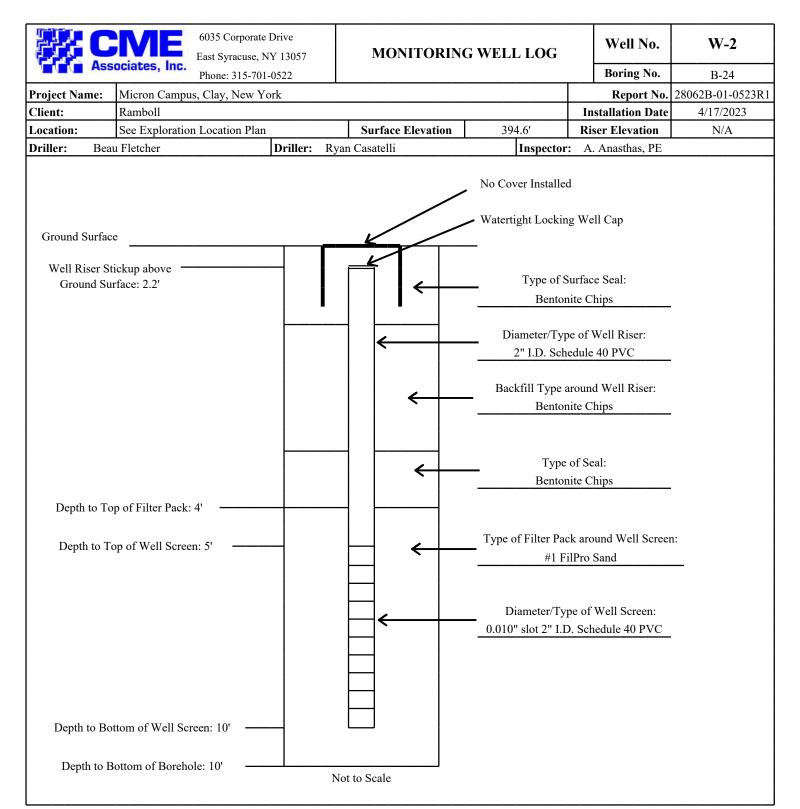
Hannah Kloiber

Laboratory Supervisor



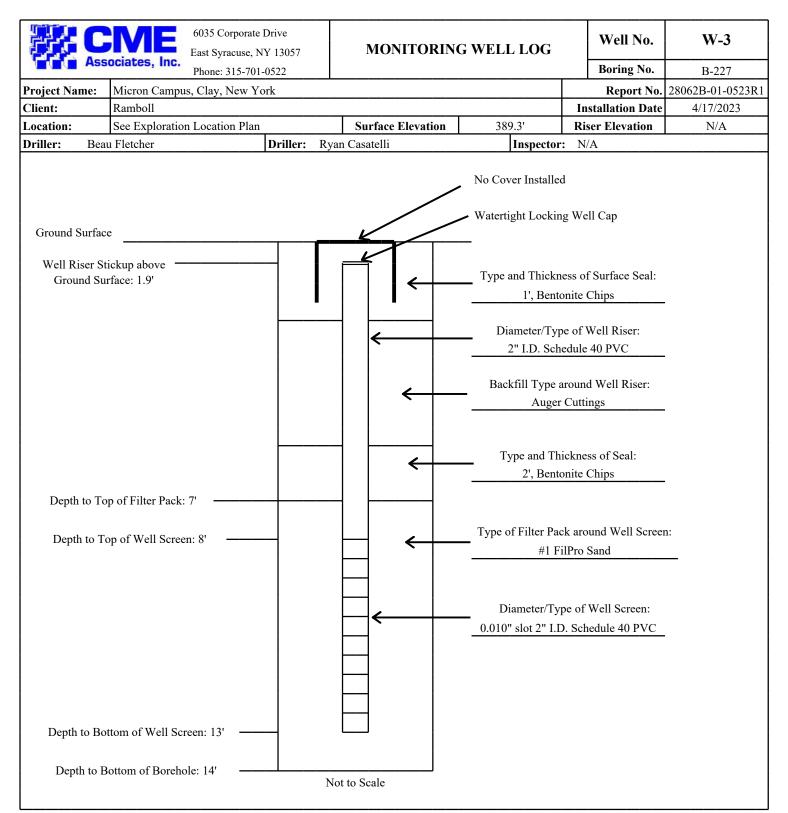
#### Remarks:

1. See Test Boring Log B-129 for soil information.



#### Remarks:

1. See Test Boring Log B-24 for soil information.



#### Remarks:

1. See Test Boring Log B-227 for soil information.

	C	V	E		orporate Drive racuse, NY 13057	SU	J <b>BSURF</b>	ACE EX	KPLORATION	Boring No. Page No.		<b>-1</b>
	Acer	ciates	Inc				TEST	BORI	NG LOG	_		
					315-701-0522					•	28062B-0	
				us, Clay,	New York					Date Started		08/23
Client:		Rambo								Date Finished		08/23
Location	:			n Locati						Surface Elev.		2.7'
		ME	THO	DS OF	INVESTIGATIO	N			GROUNDWATER	R OBSERVAT	IONS	
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	D 4	m·	D 41 (E(1)	<i>c</i> ·	A (Æ()
Driller:		R. Casa	atelli		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:				Other:			05/08/23	While Drilling	none noted	23	3.5
Drill Rig		CME 5	5		Soil Sampler:	2" OD S	plit Barrel	05/08/23	Before Casing Removed	8.9	23	3.5
Type:		ATV			Hammer Wt:	140 lbs.	1	05/08/23	After Casing Removed	1.4		ut
Rod Size		AWJ			Hammer Fall:	30 in.		05/08/23	After Casing Removed	caved @ 3.6		ut
rtou Size			D/DI		MPLES	J 0 III.	<b>V</b> /10		LASSIFICATION (	_		u.
ı	LU			ING SE	MILTES		V IX	SUAL C	LASSIFICATION	JF MIATERIA	LL	
Depth			Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium		0% / some - 20 to 35°		or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/14	WH-1-3-2	l_			Matter (wet)		. — - — .	4
	1B	1.0	2.0						ILT, trace CLAY, little	fine SAND (mo	ist,	
1							medium sti	ff)				
2	2	2.0	4.0	SS/16	3-3-4-3		Light Brow		ILT, little CLAY, trace	fine SAND (we	t,	7
2							medium su	111)				
3												
	_											
4	3	4.0	6.0	SS/22	2-2-2-4		_	-	ILT, little cmf SAND, t	race CLAY (we	t,	4
							medium sti	iff)				
5												
6	4	6.0	8.0	SS/18	5-7-7-10		Light Brow	n SILT, t	race fine SAND (wet, s	tiff)		14
									,	,		
7												
8	5	8.0	10.0	SS/17	4-8-10-12		Light Brow	n SILT t	race fine SAND (wet, v	very stiff)		18
	3	0.0	10.0	55/17	101012		Eight Brow	, ii SILI, t	race line State (wei,	cry stirry		10
9												
9												
10												
10												
11												
12												
13												
	6	13.5	15.0	SS/18	5-6-4		Light Brow	n SILT, t	race fine SAND (wet, s	tiff)		10
14												
15												
16												
10												
17												
1 /												
10												
18	7	18.5	20.0	SS/14	уд улт улт		Croy CII T	1;++1	fcand these fine CD	AVEL (wat we	, aaft)	0
10	1	16.3	∠0.0	35/14	WH-WH-WH		Grey SIL1	, mue cm	f SAND, trace fine GRA	A v EL (wet, very	y soit)	U
19												
						Ī						

#### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

Boring No. B-1
Page No. 2 of 2
Report No. 28062B-01-0523-R1

Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES							1ESI DORING I		Report No. 2806	2B-01-0523-R1			
	LOG OF BORING SAMPLES  epth Sample Depth Type / Blows on						VISUAL CLASSIFICATION OF MATERIAL						
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %			
20 21 22													
23	0	22.5	22.0	GG/4	100/4#								
24	8	23.5	23.9	SS/4	100/4"		Grey SILT (wet) Weathered ROCK fragment Auger refusal at 24.0'	nts noted		100+			
25 26							Bottom of Boring at 24'						
27													
28 29													
30	-												
31													
32 33													
34													
35 36													
37													
38													
39 40	_												
41													
42 43													
44													
45													

						1				1			
					orporate Drive	SI	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No.		3-3
					racuse, NY 13057			BORI		Page No.		of 2	
			s, Inc.		315-701-0522		11201	DOM	10	LOG	Report No.		1-0523-R1
Project	Name:			us, Clay,	New York						Date Started		08/23
Client:		Rambo									Date Finished		08/23
Locatio	n:			n Locati					~-		Surface Elev.		93'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	TONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:			05/00/22		Mari 12 mr		_	, ,
Inspect		CME 4			Other:	2" OD 6	(1:4 D1	05/08/23 05/08/23	D.f.	While Drilling	none noted		6.0
Drill Ri Type:	g:	CME 5	))		Soil Sampler: Hammer Wt:	140 lbs.	plit Barrel	05/08/23		ore Casing Removed er Casing Removed	10.3 none noted		26 out
Rod Siz	· • •	AWJ			Hammer Fall:	30 in.		05/08/23		er Casing Removed	caved @ 4.8		out
Kou Siz			R∩R1	NC S	AMPLES	30 m.	VI			SSIFICATION C	)		, ut
		ı		110 57					LAN	I	T WATERIA	L	
Depth	G 1		e Depth t.)	Type /	Blows on	Depth of		coarse		1 25 4 50	0// 20/ 25	0./	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35 0% / trace - 0 to 109		or RQD %
0	1A	0.0	1.0	SS/20	WH-WH-4-4	(1 t.)	Topsoil and		Mat		0 10 10	, 0	4
1	1B	1.0	2.0				Light Brow	n Grey S	ILT,	little CLAY, trace	fine SAND (we	t,	
							medium sti			ŕ	`		
2	2	2.0	4.0	SS/16	4-4-3-3		Light Brow	n Grey S	trace CLAY, trace	fine SAND (we	t,	7	
							medium sti	iff)					
3													
4	3	4.0	6.0	SS/24	4-3-4-8		Light Brow	vn SILT, t	nedium stiff)		7		
5													
_													
6	4	6.0	8.0	SS/18	5-6-6-9		Similar as	above (we	et, sti	ff)			12
7													
7													
8	5	8.0	10.0	SS/20	5-7-8-8		Similar as	ahove (we	t vo	ry ctiff)			15
0	3	0.0	10.0	33/20	3-7-6-6		Sillillal as	above (we	ι, ν	ry surr)			13
9													
10	1												
11													
12													
13							_ ~	a					
	6	13.5	15.0	SS/13	WH-2-1		Grey/Brow	n SILT, t	race	CLAY, trace fine S	SAND (wet, soft	)	3
14													
1.5	-												
15													
16													
10													
17													
1/													
18													
	7	18.5	20.0	SS/16	3-4-9	Grey SILT, some cmf SAND, trace mf GRAVEL (wet, stiff)					13		
19	'					-9 Grey Sill, some cmi SAND, trace mi GRAVEL (wet, still)							
20	1			Ī			Ī						1

## Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-3** Page No. 2 of 2 Report No. 28062B-01-0523-R1

	ASSOCIATES, Inc. Phone: 315-701-0522				ILSI BOIM (G)	200	Report No. 28062B-	01-0523-R1		
	LOG OF BORING SAMPLES  Depth Sample Depth Type / Blows on						VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
21 22										
23										
24	8	23.5	25.0	SS/8	8-10-2-3		Grey cmf GRAVEL/ROC compact) ROCK fragments noted	K fragments, trace	e SILT (wet, medium	12
25							ite etty, ug.mems moteu			
26	9	26.0	26.0	SS/0	100/0"		No Recovery Auger Refusal at 26.0			100+
27							Bottom of Boring at 26.0'			
28							Bottom of Bornig at 20.0			
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E		orporate Drive racuse, NY 13057	st			KPLORATION	Boring No. Page No.		<b>B-5</b> of 2		
	Asso	ciate	. Inc.	-	315-701-0522		TEST	BORI	NG LOG	Report No.		01-0523-R1		
Project N					New York					Date Started		08/23		
Client:	vaine.	Rambo		us, Ciay,	New Tolk					Date Started  Date Finished		08/23		
Location				on Locati	D1					Surface Elev.		92.7'		
Location	1;				INVESTIGATIO	NT			GROUNDWATER			92.1		
D211				DS OF			II C A		GROUNDWAIER	T ODSEKVA I	IONS			
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date	Time	Depth (Ft.)	Casing	g At (Ft.)		
Driller:		R. Cas	atem		Casing Hammer:			05/09/22	M1.1 D .11.	14.2		4.7		
Inspecto		CME 4			Other:	211 OD 0	( 1'; D 1	05/08/23	While Drilling	14.3	24.7 24.7			
Drill Rig	<b>g:</b>	CME 5	))		Soil Sampler:		plit Barrel	05/08/23	Before Casing Removed	2.2				
Type:		ATV			Hammer Wt:	140 lbs.		05/08/23	After Casing Removed	none noted		out		
Rod Size		AWJ	DOD!	DIG G	Hammer Fall:	30 in.	¥ 77.	05/08/23	After Casing Removed	caved @ 3.5		out		
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFICATION (	JF MATERIA	<u> </u>			
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"		
	Sample	(F	t.)	Sample	Sampler	Change	m -	medium	and - 35 to 50	0% / some - 20 to 35	%	or		
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 10°	%	RQD %		
0	1 <b>A</b>	0.0	1.0	SS/18	WH-2-4-4		Topsoil and	d Organic	Matter (wet)			6		
1	1B	1.0	2.0				Brown/Gre	SAND, trace RO	OTS					
2	2	2.0	4.0	SS/20	3-4-5-4		,	,	mana fina CAND (vyat a	4:60		9		
3	2	2.0	4.0	33/20	3-4-3-4	Light Brown SILT, trace fine SAND (wet, stiff)								
4	3	4.0	6.0	SS/24	4-4-6-8			10						
5														
6	4	6.0	8.0	SS/17	6-7-8-7		Similar as	above (we	et, very stiff)			15		
7														
8	5	8.0	10.0	SS/17	4-7-6-11		Similar as	above (we	et, stiff)			13		
9														
10														
11														
12														
13	,	12.5	15 ^	00/1/	67.5		C CT	, ~	CAND (			12		
14	6	13.5	15.0	SS/16	6-7-5	Grey SILT, trace fine SAND (wet, stiff)								
15														
16														
17														
1 /														
18														
19	7	18.5	20.0	SS/17	3-3-5	Similar as above (wet, stiff)								

#### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-5

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

Associates, Inc. Phone: 315-701-0522  LOG OF BORING SAMPLES						<u> </u>	1ESI DORING I		Report No. 280	62B-01-0523-R1
	LOG OF BORING SAMPLES  Depth Sample Depth Type / Blows on						VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.	Sample (F	Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50 little - 10 to 2	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20										
21										
22										
23	8	23.5	24.7	SS/10	8-10-100/3"		Grey cmf GRAVEL, trace	SILT (wet, very	compact)	100+
24							ROCK fragments noted		1 /	
25							Auger Refusal at 24.7 Bottom of Boring at 24.7'			
26							Doublin of Boring at 24.7			
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
42	ī					i	Ī			ī

45 SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	F		orporate Drive	SU	JBSURFA	ACE EX	KPL	ORATION	Boring No.		3-7
	Ass	ociates	s. Inc.	•	racuse, NY 13057 315-701-0522		TEST	BORI	NG I	LOG	Page No. Report No.		of 2 01-0523-R1
Project				I moner.	New York						Date Started		)9/23
Client:	Name:	Rambo		us, Ciay,	New Tolk						Date Started  Date Finished		09/23
Locatio	n.			on Locati	on Dlan						Surface Elev.		1.2'
Locatio	11.				INVESTIGATIO	N			GR	ROUNDWATER			1.2
Driller:		B. Flet		DS OF	Casing:	3 ¼" ID	НСΔ		GIV	CONDWATER		10115	
Driller:		R. Cas			Casing Hammer:	3 /4 ID	11.5.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto		10.000			Other:			05/09/23		While Drilling	7.5	1	8.5
Drill Ri		CME 5	55		Soil Sampler:	2" OD S	Split Barrel	05/09/23		ore Casing Removed	6.0	2	0.6
Type:	0	ATV			Hammer Wt:	140 lbs.		05/09/23		er Casing Removed	none noted	C	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		05/09/23		er Casing Removed			
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	e Depth		Blows on		C.	- coarse					SPT "N"
Scale	Sample	_	t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	_	- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/14	WH-WH-1-4		Brown Gre	y SILT, t	race (	CLAY, trace fine S	AND, trace RO	OTS	1
							Materials (	moist, vei	ry sof	ft)			
1													
_	_												
2	2	2.0	4.0	SS/20	4-4-3-3	Light Brown/Grey SILT, little fine SAND, trace C						ist	7
						medium stiff)							
3													
	_	1.0		GG/22	2 2 2 2	Light Brown SILT trace fine SAND (wet medium stiff)							
4	3	4.0	6.0	SS/23	3-3-3-3	Light Brown SILT, trace fine SAND (wet, medium stiff)							6
	ł					Light Brown SiL1, trace line SAIVD (wet, inedian stiff)							
5													
6	4	6.0	8.0	SS/16	3-2-2-5		Similar ac	above (w	at me	edium stiff)			4
		0.0	0.0	33/10	3-2-2-3		Sillillai as	above (we	ι, IIIC	Zaidili Stili)			_
7													
<b>'</b>													
8	5	8.0	10.0	SS/18	3-4-6-7		Similar as	above (we	et, sti	ff)			10
								`		,			
9													
10													
11													
10													
12													
12													
13	6	13.5	13.7	SS/3	100/3"		Light Duo	m SII T		cmf SAND, trace f	ine GD AVEL (	moist	100+
14	0	13.3	13./	33/3	100/3		hard)	vii SILI, l	1 ace	ciii sand, hace i	IIIC OKAVEL (I	moist,	100+
1 +							maru)						
15	ł												
13													
16													
10													
17													
18													
	7	18.5	20.0	SS/12	19-14-10-13		Light Brow	vn/Grey S	ILT,	some cmf GRAVE	L, some fine SA	AND	24
19							(wet, very						
						<u> </u>	ROCK frag						
20	8	20.5		SS/1	100/1"	<u> </u>				ragments (wet)			100+

20 8 20.5 20.6 SS/1 100/1" Grey Weathered ROCK fragments (wet)
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
Remarks:

CME
Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-7

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

Associates, Inc. Phone: 315-701-0522  LOG OF BORING SAMPLES							TEST BURING I		Report No. 28062B	-01-0523-R1
	LOG OF BORING SAMPLES						VISUAL CLASS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.	Sample (F From	Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Refusal at 20.6'			
21							Bottom of Boring at 20.6			
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41 42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

												T	
		N/		6035 C	orporate Drive	SI	JBSURFA	ACE EX	PL	ORATION	Boring No.	B	-20
		IV	Ę	•	racuse, NY 13057	TEST BORING LOG  Page 1  Report 1							of 2
		ciates			315-701-0522		11231	DOM	10	LOG	Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		19/23
Client:		Rambo									Date Finished		19/23
Locatio	n:			n Locati		N.T.			CI		Surface Elev.		2.4'
D '11				DS OF	INVESTIGATIO		TI C A	1	Gl	ROUNDWATER	OBSERVAT	IONS	
Driller: Driller:		G. Rich			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			ara rma, E.	ΙΤ	Other:			04/19/23		While Drilling	none noted	none	noted
Drill Ri		CME 5		1.1.	Soil Sampler:	2" OD S	Split Barrel	04/19/23	Bef	Fore Casing Removed	10.1		6.6
Type:	8.	ATV			Hammer Wt:	140 lbs.	-	04/19/23		ter Casing Removed	9.0		out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.				ter Casing Removed	caved @ 4.5'	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS			SSIFICATION C	OF MATERIA	L	
Depth		Sample	Depth		Blows on		C -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	0% / trace - 0 to 109		RQD %
0	1A	0.0	0.6	SS/22	WH-1-2-3		Topsoil and						
	1B	0.6	2.0				Brown Mo	ttled SILT	, tra	ce CLAY, trace fin	e SAND (moist,	, soft)	3
1													
2	2	2.0	4.0	SS/18	3-3-6-6	Brown SILT, trace CLAY (moist, stiff) $PP=1.5, 1.5, 2.0$							9
3						· · · · · · · · · · · · · · · · · · ·							
						Dark Grev.cmf SAND_some SILT_trace fine GRAVEL_trace							
4	3A	4.0	5.0	SS/24	3-4-5-5	Dark Grey cmf SAND, some SILT, trace fine GRAVEL, trace							
						Dark Grey cmf SAND, some SILT, trace fine GRAVEL, trace ROOTS (wet, loose)							
5	3B	5.0	6.0				Brown SIL	T, trace C	LA	Y, trace mf SAND,	trace fine GRA	VEL	
							(moist, stif	f)					
6	4	6.0	8.0	SS/24	4-5-6-10				LAY	Y (moist, stiff)			11
							PP=2.5, 2.	25, 2.25					
7													
8	5	8.0	10.0	SS/24	4-6-6-9		Similar as	above (mo	oist, s	stiff)			12
9													
10													
10													
11													
12													
13													
	6	13.5	15.0	SS/18	7-11-8		Similar as	above (mo	oist,	very stiff)			19
14								(	7	,			
15	]												
16													
17													
10													
18	7	19.5	20.0	SS/14	3-3-4		Gray CII T	trace CI	ΛV	(wet, medium stiff)			7
19	′	18.5	∠0.0	33/14	3-3-4		Giey SIL1	, nace CL	Αľ	(wei, medium stiff)			'
12													
20	1												

## Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-20

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

LOG OF BORING SAMPLES							TEST DOMING			28062B-01-0523-R	
	LO	G OF	BOR	ING SA	AMPLES	VISUAL CLASSIFICATION OF MATERIAL  On Doubt of C - Coarse SE					
Depth Scale (Feet)	Sample No.	Sample (F	Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%		
20											
21											
22											
23											
24	8	23.5	25.0	SS/18	13-12-18		Dark Grey ROCK chips &	t fragments, trace	SILT (wet)	30	
25											
26										100	
27	9	26.5	26.7		100/1"		Grey ROCK chips & frag Bottom of Boring at 26.7'	ments (wet)		100+	
28											
29											
30											
31											
32											
33											
34											
35	1										
36											
37											
38											
39											
40	-										
41											
42											
43											
44											
45	1										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	E		orporate Drive racuse, NY 13057	13057 TEST ROPING LOC Page No. 1 of 2							
	Ass	ociates	, Inc.	-	315-701-0522		TEST	BORI	NG	LOG	_		
Project	Name:	Micror	Camp	us, Clav,	New York						Date Started		9/23
Client:		Rambo		, ,,							Date Finished		9/23
Locatio	n:			n Locati	on Plan						Surface Elev.		7.3'
Locatio					INVESTIGATIO	N			GR	ROUNDWATER			7.5
Driller:		G. Ricl		D5 01	Casing:	3 ¼" ID	НСА		01	COULD WITTER	OBSERVITI	10115	
Driller:		C. O'H			Casing Hammer:	3 /4 ID	11.5.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect		A. Sha		IТ	Other:			04/19/23		While Drilling	4.6	1:	3.5
Drill Ri		CME 5		1.1.	Soil Sampler:	2" OD 9	Split Barrel	04/19/23		ore Casing Removed	4.2		0.2
Type:	<b>5•</b>	ATV	,5		Hammer Wt:	140 lbs.	-	04/19/23		er Casing Removed	4.2		ut
Rod Siz	·e•	AWJ			Hammer Fall:	30 in.		04/19/23		er Casing Removed	caved @ 9.0		ut
Rou Siz			RAR1	NC S	AMPLES	30 m.	VI			SIFICATION C	)		ut
	LO	1		110 5/			V 1)	SUAL C	LAS	I	T WIATEKIA	LL .	
Depth		_	Depth	Type /	Blows on	Depth of		- coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 35°		or
(Feet)	No.	From	To 0.5	Rec. (in.) SS/19	Per 6 Inches WH-1-2-3	(Ft.)	Topsoil and	- fine	Mat		0% / trace - 0 to 109	[/] 0	RQD %
U	1A	0.0		35/19	W II-1-2-3					rial (wel)  7, trace ROOTS, tra	WOOD (		3
1	1B	0.5	2.0				Brown SIL	1, trace C	LAY	, trace ROOTS, tra	ace wood (we	t, som)	
1													
_		2.0	4.0	00/16	7.656		D GII		NT A X	7.( , , , ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;			11
2	2	2.0	4.0	SS/16	7-6-5-6	Brown SILT, trace CLAY (wet, stiff) $PP=1.5, 1.5, 1.75$							11
2						PP=1.5, 1.5, 1.75							
3													
		4.0		00/10	0.5.6.0	Dark Grev/Brown SILT and CLAY, trace Organic Materials							11
4	3	4.0	6.0	SS/18	9-5-6-9	Dark Grey/Brown SILT and CLAY, trace Organic Materials							
							(wet, stiff)						
5							PP=0.75, 0	0.75, 1.0					
6	4	6.0	8.0	SS/24	6-9-9-10				CLAY	(wet, very stiff)			18
_							PP=2.25, 2	2.5, 2.0					
7													
	_												
8	5	8.0	10.0	SS/20	6-5-4-6		Grey/Brow	n SILT, t	race (	CLAY (wet, stiff)			9
9													
10													
10													
11													
12													
13				~~				arr - :		0.0.1.175			
	6	13.5	15.0	SS/18	1-1-3			n SILT, l	ittle r	nf SAND, trace CI	AY (wet, media	ım	4
14							stiff)						
15													
16													
17													
18							L						
	7	18.5	20.0	SS/13	3-14-9				cmf	GRAVEL, trace co	mf SAND, trace	CLAY	23
19						(wet, very stiff)							
	]						Augered H	arder at 2	20.31				
20	1						I						

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP=Pocket Penetrameter Results in tsf

## Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-23** Page No. 2 of 2 **Report No.** 28062B-01-0523-R1

					315-701-0522		TEST BOTH TO EOG	Report No. 28062	B-01-0523-R1
	LO	T .		ING SA	AMPLES		VISUAL CLASSIFICATIO	N OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium and - 35 f - fine little - 1	to 50% / some - 20 to 35% 0 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	20.6	20.7	SS/1	100/1"		Dark Grey ROCK fragments (wet) Bottom of Boring at 20.7'		100+
22							Bottom of Boring at 20.7		
23									
24									
25									
26									
27									
28 29									
30	_								
31									
32									
33									
34									
35									
36									
38									
39									
40	-								
41									
42									
43									
44	_								
45 CF C		1				1	CII + D 1 WD W 11, CD 1		

											Danis N	п	24
		V	F		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	<b>PL</b>	ORATION	Boring No.		- <b>24</b> of 2
	Age	ciates	s. Inc	•	racuse, NY 13057 315-701-0522	1	TEST	BORI	NG	LOG	Page No. Report No.		of 2 01-0523-R1
Project	2,5,5,7,7			I momer	New York						Date Started		17/23
Client:	rvaine.	Rambo		us, Ciay,	, INCW TOIR						Date Started  Date Finished		17/23
Locatio	n:			on Locati	ion Plan						Surface Elev.		4.6'
200000					INVESTIGATIO	N			GI	ROUNDWATER			
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.						4 ( ( ( ) )
Driller:		C. O'H	ara		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect		A. Ana	asthas, I	P.E.	Other:			04/17/23		While Drilling	9.7	1.	3.5
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	04/17/23		ore Casing Removed	8.2	2	2.7
Type:		ATV			Hammer Wt:	140 lbs.		04/19/23		ter Casing Removed	2.4	-	out
Rod Siz		AWJ	DOD	DIG C	Hammer Fall:	30 in.	¥ 7¥ 6			ter Casing Removed	caved @ 5.4		out
	LO	1			AMPLES		VIS	SUAL C	LAS	SSIFICATION C	)F MATERIA	<u>L</u>	1
Depth			e Depth	Type /	Blows on	Depth of		- coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			1% / some - 20 to 35		or
(Feet)	No.	From 0.0	To 0.5	Rec. (in.) SS/15	Per 6 Inches WH-WH-1-3	(Ft.)	Topsoil and	- fine	Mat		20% / trace - 0 to 10°	<b>%</b> 0	RQD %
	1B	0.5	2.0	33/13	W11-W11-1-3					I CLAY, trace mf S	AND (moist ve	ery soft)	1
1	113	0.5	2.0				Brown ino	tiled SIL I	unc	CLITT, Hace III 5	THE (moist, ve	<i>ny</i> 5011)	
2	2	2.0	4.0	SS/20	2-3-4-4		Brown Mo	ttled SILT	, soi	me CLAY, trace mf	f SAND (moist,		7
							medium sti	iff)					
3													
4	3	4.0	6.0	SS/22	2-2-2-2				, soi	me CLAY, trace fin	ne SAND (wet,		4
							medium sti	/					
5							PP=1.25, I	1.5, 1.75					
6	4	6.0	8.0	SS/24	2-4-2-4		Drown CII	T trace	71 A T	Y (wet, medium stif	PF)		6
0	1 4	0.0	8.0	33/24	2-4-2-4		PP=1.25,		LA	i (wet, illedium sm	11)		0
7							1.23, 1	1.5, 1.75					
8	5	8.0	10.0	SS/24	3-6-10-11		Similar as	above (we	et, ve	ery stiff)			16
							PP=2.5, 2.	0, 2.0					
9													
10													
10													
11													
12													
13	_	l				1		_					
	6A	13.5	14.6	SS/18	5-6-6-11	1			LA'	Y, trace mf SAND (	(wet, stiff)		12
14	(D	14.6	15.0			<u> </u>	<i>PP</i> =1.25, <i>P</i>			AND	AVEL		
15	6B	14.6	15.0			1	Brown SIL	1, little ci	mt S	AND, trace mf GR	AVEL (wet, stif	11)	
13													
16						1							
						1							
17													
						1	Started to d				<b></b>		]
18						1	Started to d				<b> </b>		
	7	18.5	18.8	SS/3	100/3"	1	Grey ROC	K chips, f	ragn	nents & flour, some	SILT (wet)		100+
19						1							
20	ł					1							

## Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-24** Page No. 2 of 2 **Report No.** 28062B-01-0523-R1

Scale						315-701-0522		TEST DOM: (G1		Report No. 28062	2B-01-0523-R1
Sample   Green   Sample   Green   Sample   Green   Sample   Change   Green   Green		LO	G OF	BOR	ING SA	AMPLES		VISUAL CLASS	SIFICATION (	OF MATERIAL	
20   21   22   8   22.7   22.8   SS/1   100/1"   Anger refused at 22.7'   Grey ROCK chips, fragment & flour (wet)   Sampler refused at 22.8'   Bottom of Boring at 22.8'   25   26   27   28   29   30   31   32   33   34   35   36   37   38   39   40   41   42   43   44   44   44   44   44   44	Scale		(F	t.)	Sample	Sampler	Change	m - medium			SPT "N" or RQD %
22 8 22.7 22.8 SS/1 100/1"											
22 8 22.7 22.8 SS/1 100/1" Grey ROCK chips, fragment & flour (wet) Sampler refused at 22.8'  Bottom of Boring at 22.8'  30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	21							Auger refusal at 22.7'			
24   25   26   27   28   29   30   31   32   33   34   35   36   37   38   39   40   41   42   43   44   44		8	22.7	22.8	SS/1	100/1"		Grey ROCK chips, fragme Sampler refused at 22.8'	ent & flour (wet)		100+
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43 44	23							Bottom of Boring at 22.8'			
26   27   28   29   30   31   32   33   34   35   36   37   38   39   40   41   42   43   44   42   43   44											
27	25										
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	26										
29       30       31       32       33       34       35       36       37       38       39       40       41       42       43       44											
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	28										
31 32 33 34 35 36 37 38 39 40 41 42 43 44	29										
32 33 34 35 36 37 38 39 40 41 42 43 44											
33 34 35 36 37 38 39 40 41 42 43 44											
34       35       36       37       38       39       40       41       42       43       44	32										
35 36 37 38 39 40 41 42 43 44	33										
36 37 38 39 40 41 42 43 44	34										
37 38 39 40 41 42 43 44	35	1									
38       39       40       41       42       43       44	36										
39       40       41       42       43       44	37										
40       41       42       43       44											
41       42       43       44											
42       43       44											
43 44											
44											
45	45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E		orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		-25 of 1
	Asso	ciates	s, Inc.		315-701-0522		TEST	F BORI	NG I	LOG	Report No.	28062B-0	01-0523-R1
Project					New York	ı					Date Started		18/23
Client:		Rambo		,,,	1000 1000						Date Finished		18/23
Locatio	n:			on Locati	on Plan						Surface Elev.		93'
Locatio			•		INVESTIGATIO	N			GR	ROUNDWATER			,,,
Driller:		G. Ric		<i>D</i> 5 <b>O</b> 1	Casing:	3 1/4" ID	HSA						
Driller:		C. O'H			Casing Hammer:	0 /4 12		Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	A. Sha	rma, E.	I.T.	Other:			04/18/23		While Drilling	9.6	1	3.5
Drill Ri		CME 5			Soil Sampler:	2" OD S	Split Barrel	04/18/23		ore Casing Removed	6.1	1	8.5
Type:	9	ATV			Hammer Wt:	140 lbs.	-	04/18/23		er Casing Removed	5.2	(	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/18/23		er Casing Removed			
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C		SIFICATION C	F MATERIA	L	
Danth		Sample	e Depth		Dlaws an								SPT "N"
Depth Scale	Sample	Sample (F		Type / Sample	Blows on Sampler	Depth of Change		- coarse medium		and - 35 to 50	1% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0		0.0	2.0	SS/15			Brown SIL	T, trace C	CLAY	, trace ORGANIC			2
											`	,	
1													
2	2	2.0	4.0	SS/20	3-3-4-5		Brown mot <i>PP=1.75, 2</i>		`, trac	ee CLAY (moist, m	edium stiff)		7
3							FF-1./J, 2	2.0, 2.23					
4	3	4.0	6.0	SS/24	4-3-3-5		Brown SIL	T, little C	LAY	, trace ROOTS (w	et, medium stiff	)	6
5													
6	4	6.0	8.0	SS/24	4-5-6-6		Brown SIL	T, trace C	CLAY	(wet, stiff)			11
7 8	5	8.0	10.0	SS/24	1570		Dansver CH	T two as C	T AX	/ (wat atiff)			12
9	3	8.0	10.0	33/24	4-5-7-8		PP=1.75,		LA I	(wet, stiff)			12
10													
11													
12													
13	_						ļ <u>.</u> —						
14	6	13.5	15.0	SS/14	4-16-16		Grey cmf S Augered sl			f GRAVEL, little S at 14.2'	SILT (wet, comp	pact)	32
15													
16													
17							Augered ho	arder at 1	8 1'				
18							mugereu na	aruer ut I	0.1				1
19	7	18.5	18.6	SS/1	100/1"		Grey ROC Bottom of			ents & flour (wet)			100+
20													

	C	M	E	East Sy	orporate Drive racuse, NY 13057	SU		ACE EX		ORATION LOG	Boring No. Page No.	1	- <b>26</b> of 1
					315-701-0522		1101	DOM	. 10	200	Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		18/23
Client: Locatio		Rambo		T4	D1						Date Finished Surface Elev.		18/23
Locatio	n;			n Locati	INVESTIGATIO	N			GR	ROUNDWATER			2.1'
Driller:		G. Ric		D5 01	Casing:	3 ¼" ID	H.S.A.		GIV				
Driller:		C. O'H			Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect	or:	A. Sha	rma, E.	I.T.	Other:			04/18/23		While Drilling	10.3	1:	3.5
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	04/18/23		ore Casing Removed	6.9	1	8.0
Type:		ATV			Hammer Wt:	140 lbs.		04/18/23		er Casing Removed	0		out
Rod Siz		AWJ	DOD	DIC C	Hammer Fall:	30 in.	X 71	04/18/23		er Casing Removed	caved @ 4.8'		out
	LO	1		ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	OF MATERIA	L	1
Depth Scale (Feet)	Sample No.	Sample (F	Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change	m -	- coarse medium			% / some - 20 to 35 0% / trace - 0 to 109		SPT "N" or RQD %
0	INO.	0.0	2.0	SS/17	WH-WH-2-WH	(Ft.)	_		LAY	, trace ORGANIC			2
1			2.0	55.17	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 							-
2	2	2.0	4.0	SS/24	3-4-5-5	PP=2.5, 2.5, 3.0						9	
3													
4	3	4.0	6.0	SS/24	3-2-3-3	Brown SILT, trace CLAY, (moist, medium stiff)  PP=1.5, 1.25, 1.5						5	
5	1						,	,					
6	4	6.0	8.0	SS/24	WH-3-3-5						6		
7							PP-1.3, 1.	.3, 2.0					
8	5	8.0	10.0	SS/19	3-6-7-8		Same as ab	ove (wet,	stiff)	)			13
9													
10													
11													
13													
14	6A 6B	13.5 14.0	14.0 15.0	SS/6	5-7-7					(moist, stiff) f GRAVEL, trace S	SILT (wet, medi	<u></u>	14
15	1						compact)						
16							Augered gi	ravely froi	m 15.	6' to 16.2'			
17							Augered h	arder at 1	7.7'				
18							<u> </u>					. — - —	]
19	7	18.0	18.1	SS/1	100/1"		Grey ROC  Bottom of			ents & flour (wet)			100+
20	1						DOMOIN OF	Doring at	10.1				

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP=Pocket Penetrameter Results in tsf

				6035 C	orporate Drive	CI	IDCLIDE	A CE EX	DI 4	ORATION	Boring No.	В	-27
		IV		East Sy	racuse, NY 13057	50					Page No.	1	of 1
	Ass	ociates	s, Inc.	Phone:	315-701-0522		IESI	BORI	NG	LUG	Report No.	28062B-0	01-0523-R1
Project	Name:	Micror	n Camp	us, Clay,	New York						Date Started	04/	18/23
Client:		Rambo									Date Finished	04/	18/23
Locatio	n:			on Locati							Surface Elev.		90'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	TONS	
Driller:		G. Rich			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspect		C. O'H	ara rma, E.	IТ	Casing Hammer: Other:			04/18/23		While Drilling	5.6	1	3.5
Drill Ri		CME 5		1.1.	Soil Sampler:	2" OD S	Split Barrel	04/18/23		ore Casing Removed	6.9		6.7
Type:	<b>5</b> *	ATV	, 5		Hammer Wt:	140 lbs.		04/18/23		er Casing Removed	4.4		out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		04/18/23		er Casing Removed	caved @ 8.4	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	<b></b>	Blows on	- 10	c -	- coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		0% / trace - 0 to 109	%	RQD %	
0	1A	0.0	0.5	SS/17	1-3-5-5		Topsoil and					<del></del>	8
1	1B	0.5	2.0					ttled SILT	, littl	le CLAY, trace RO	OOTS (moist, me	edium	
1							stiff)						
2	2	2.0	4.0	SS/22	6-6-4-4		Brown Mo	ttled SILT	`. trac	ce CLAY (wet, stif	'n		10
_	_			00,22		Brown Mottled SILT, trace CLAY (wet, stiff) $PP=1.5, 1.0, 1.0$							
3													
4	3	4.0	6.0	SS/22	2-4-5-6								9
	4					Brown SILT, trace CLAY (moist, stiff)							
5													
6	4	6.0	8.0	SS/24	3-5-5-7		Brown SII	T trace (	TAV	(wet, stiff)			10
	-	0.0	0.0	55/24	3-3-5-7		DIOWII SIL	i, nace C	LAI	(wet, still)			10
7													
8	5	8.0	10.0	SS/16	4-5-5-7		Same as ab		st, sti	ff)			10
							PP=1.5, 1.	5, 1.5					
9													
10													
10													
11													
12													
1.0							<b></b>					. — - —	.
13	6	13.5	15.0	SS/16	8-9-9		Crox on f	SAND 114	10	f GRAVEL, trace S	ZII T (wat and 1	11100	18
14	6	13.3	15.0	33/10	8-9-9			DAND, III	ue mi	I OKA VEL, Trace S	oili (wei, medi	uIII	18
17						compact)							
15	1												
16						Augured hard at 16.6' Grey ROCK chips & fragments (wet)							]
	7	16.7	16.8	SS/1	100/1"		Grey ROC	K chips &	frag	ments (wet)	<del>-</del>		100+
17							D # 2	D.	160				4
18							Bottom of	Boring at	16.8'				
10													
19													
20	1	Ī		Ī	ĺ		1						1

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		5-28 of 1
	Ass	ociates	s, Inc.	Phone:	315-701-0522		IESI	BORI	NG	LUG	Report No.	28062B-	01-0523-R1
Project	Name:	Micror	n Camp	us, Clay,	New York						Date Started	04/	18/23
Client:		Rambo									Date Finished		18/23
Locatio	n:	See Ex	ploration	n Locati	ion Plan						Surface Elev.	39	90.5'
		ME	THO	DS OF	INVESTIGATIO	N			GR	COUNDWATER	OBSERVAT	TONS	
Driller:		G. Ric	hard		Casing:	3 ¼" ID	H.S.A.	ъ.		T:	D 41 (E4)	<i>a</i> .	A 4 (754.)
Driller:		C. O'H	ara		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspect	or:	A. Sha	rma, E.	I.T.	Other:			04/18/23		While Drilling			
Drill Ri	g:	CME 5	55		Soil Sampler:	2" OD S	Split Barrel	04/18/23	Befo	ore Casing Removed	7.8	1	8.5
Type:		ATV			Hammer Wt:	140 lbs.		04/18/23	Afte	er Casing Removed	5.3		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/18/23	Afte	er Casing Removed	caved @ 8.3		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	e Depth		Blows on		C.	- coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/16	WH-1-3-4		Brown SIL	T, little C	LAY	, trace ROOTS (m	oist, medium		4
							stiff)						
1						L	L						]
2	2	2.0	4.0	SS/18	4-4-5-4	Brown Mottled SILT, trace CLAY (moist, stiff)  PP=1.75, 2.0, 2.0							9
3							PP=1.75, 2	2.0, 2.0					
4	3	4.0	6.0	SS/16	2-2-2-1	Brown SILT, trace CLAY (wet, medium stiff) $PP=1.25, 1.25, 1.0$							4
5	1						1.20,	0,					
6	4	6.0	8.0	SS/16	3-4-5-5	PP=1.25, 1.25, 1.0  Same as above (wet, stiff)							9
7							PP=1.25,		,				
8	5	8.0	10.0	SS/20	2-6-7-5		Same as ab	oove (moi	st. stit	ff)			13
								(	,	)			
9													
10													
11							Augered co	obbly fron	ı 11'	to 12.4'			1 1
12													
13		12.5	15.0	00/17	12.16.16		D /C	OH T	1 4	COLUMN	CCAND ( '		22
14	6	13.5	15.0	SS/16	13-16-16		Brown/Gre hard)	ey SILT a	nd mi	f GRAVEL, trace of	cmf SAND (moi	st,	32
15													
16													
17							<u> </u>	. <b></b>		<b></b>			
18							<b></b>						
19	7	18.5	18.9	SS/4	100/5"		Dark Grey	ROCK fr	agme	ents (wet)			100+
							Bottom of	Boring at	18.9'				
20	1		ı	I	1	1	i .						

										-			
		N		6035 C	orporate Drive	SI	IBSURF	ACE EX	PI.	ORATION	Boring No.	B	-29
		IV			racuse, NY 13057	50		BORII			Page No.	1	of 2
	Asso	ciates	s, Inc.	Phone:	315-701-0522		1651	BUKI	<b>1</b> G 1	LUG	Report No.	28062B-0	01-0523-R1
Project	Name:	Micror	n Camp	us, Clay,	New York						Date Started	04/	19/23
Client:		Rambo									Date Finished	04/	19/23
Locatio	n:			n Locati			1	1			Surface Elev.		9.7'
				DS OF	INVESTIGATIO				GR	OUNDWATER	OBSERVAT	TONS	
Driller:		G. Rich			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H		ır	Casing Hammer:			04/10/22		M1.1 D.11.			
Inspecto Drill Ri		A. Sna	rma, E.	1.1.	Other: Soil Sampler:	2" OD 9	Split Barrel	04/19/23		While Drilling ore Casing Removed	none noted		8.0 8.5
Type:	g.	ATV	)3		Hammer Wt:	140 lbs.	-	04/19/23		er Casing Removed	none noted		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/19/23		er Casing Removed	caved @ 3.5		out
1104 812			BOR	ING S	AMPLES		VIS			SIFICATION C	_		
D (1									2.10		, i i i i i i i i i i i i i i i i i i i		CDT IDIII
Depth Scale	Sample	Sample (F	e Depth (t.)	Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and - 35 to 50	% / some - 20 to 35	%	SPT "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1A	0.0	0.3	( )	-		Topsoil and		Matt				
	1B	0.3	2.0	SS/18	1-1-2-4		Brown SIL	T, trace C	LAY	, trace ROOT Hai	rs (moist, soft)		3
1											,		
2	2	2.0	4.0	SS/14	5-4-5-3		Brown SIL	T, trace C	CLAY	(moist, stiff)			9
3													
	_	4.0		00/11			D GH	<b></b>	YF 4 T	C CDATE	TET (		
4	3	4.0	6.0	SS/11	5-5-4-4		Brown SIL	T, trace C	CLAY	, trace fine GRAV	'EL (wet, stiff)		9
	ł												
5													
6	4	6.0	8.0	SS/17	4-5-6-7		Brown SII	T trace (	TAV	(wet, stiff)			11
	-	0.0	0.0	55/17	4-3-0-7		PP=1.5, 1.		LAI	(wet, still)			11
7							11 1.5, 1.	20, 1.0					
8	5	8.0	10.0	SS/17	4-5-6-7		Similar as	above (we	et, stif	ff)			11
							PP=1.5, 1.	5, 1.5		ŕ			
9													
10													
1.1													
11													
12													
12													
13													
13	6	13.5	15.0	SS/16	7-6-5		Similar as	above (we	et, stit	ff)			11
14		-2.5	-2.0	-2.10					.,	,			
15													
16													
17													
10							<b></b>						4
18	7	10 5	20.0	997	2.2.5		Character T	tuo OT	A 3.7	tuo o o mc£ CD A VEI	(mat -4:60)		0
19	7	18.5	20.0	SS/-	2-3-5		Grey SILT	, trace CL	ΑY,	trace mf GRAVEL	(wet, stiff)		8
17													
20													

## Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-29** Page No. 2 of 2 **Report No.** 28062B-01-0523-R1

					315-701-0522		TEST BORN (G1		Report No. 28062	2B-01-0523-R1
	LO	ı		ING SA	AMPLES		VISUAL CLASS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.	Sample (F From	Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50 little - 10 to 2	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20										
21										
22										
23	8	23.5	23.9	SS/3	100/5"		Augers harder at 23.7' Dark Grey ROCK fragmen	nts (wet)		
24	0	23.3	23.7	55/3	100/3		Auger Refusal at 24.2'			
25							Bottom of Boring at 24.2'			
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45								: 1. CD 1		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	E		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	(PL	ORATION	Boring No.		-41
	Acc	ciates	Inc	-	racuse, NY 13057		TEST	BORI	NG I	LOG	Page No.		of 1
					315-701-0522						Report No.	28062B-0	
Project	Name:			us, Clay,	New York						Date Started		8/23
Client:		Rambo		T4:	Dl						Date Finished		8/23
Location	n:			n Locati	INVESTIGATIO	N			CD	ROUNDWATER	Surface Elev.		8.8'
Driller:		B. Flet		DS OF	Casing:	3 ¼" ID	нсл		GN	OUNDWATER	ODSERVAI	10113	
Driller:		R. Casa			Casing Hammer:	3 74 ID	11.5.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:				Other:			04/18/23		While Drilling	none noted	4	.0
Drill Ri	g:	CME 5	550X		Soil Sampler:	2" OD S	plit Barrel	04/18/23		ore Casing Removed	none noted	4	.0
Type:		ATV			Hammer Wt:	140 lbs.		04/18/23	Afte	er Casing Removed	2.0 (Remark 1)	C	ut
Rod Siz		AWJ			Hammer Fall:	30 in.		04/18/23		er Casing Removed	caved @ 9.3		ut
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION O	F MATERIA	L	
Depth			Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	3.6.		0% / trace - 0 to 109	%	RQD %
0	1	0.0	2.0	SS/14	1-2-3-4		Topsoil and	d Organic	Mati	ter (moist)			5
1													
1													
2	2	2.0	2.7	SS/3	4-100/3"		Brown SIL	T, little c	mf S	AND, little cmf GR	AVEL, trace R	OCK	100+
						fragments (moist)							
3						fragments (moist)  Possible Reworked Material							
						Possible Reworked Material							
4	3	4.0	4.2	SS/2	100/2"	Grey ROCK Chips & fragments; Auger refusal at 4.3'							222/
-	4	4.3	8.5	C/60						htly weathered, thin			92%
5							Broken zon			(<1/4") of SHALE	interbedded		
6		8.5	9.3							, thinly bedded, me	dium hard		
U		0.5	7.5				Recovery:				dium nard		
7							RQD: 55"/						
							8 pieces, 0						
8										coring completed i	n 5th gear		
_										wn pressure			
9							Bottom of	Boring at	9.3'				
10													
10													
11													
12													
13													
14													
15													
13													
16													
10													
17													
18													
4.0													
19													
2.0													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod Remakrs: 1. Water added for coring

				6025 C	t. D.:						Paring No.	P	-42
	- 0-	IV	Œ		orporate Drive racuse, NY 13057	3057 SUBSURFACE EAPLORATION Page No. 1 o							
	Ass	ociate	s. Inc.	Phone:	315-701-0522		TEST	BORI	NG ]	LOG	Report No.		1-0523-R1
Project					New York						Date Started		8/23
Client:	- (1111101	Rambo		us, e1uj,	1.0 1 0111						Date Finished		8/23
Locatio	n:	See Ex	ploration	on Locati	on Plan						Surface Elev.		8.8'
		ME	THO	DS OF	INVESTIGATIO	N			GR	ROUNDWATER	OBSERVAT	TONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:							_	
Inspecto		C) (E)			Other:	211.072.6	11:15 1	04/18/23		While Drilling	none noted		.8
Drill Ri Type:	g:	CME 5	50X		Soil Sampler: Hammer Wt:	2" OD S	Split Barrel	04/18/23		ore Casing Removed er Casing Removed	none noted		ut
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/18/23		er Casing Removed	caved @ 3.0		ut
1104 812			BOR	ING SA	AMPLES		VI			SIFICATION C	_		
Depth		1	e Depth		Blows on			- coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	0% / trace - 0 to 10°		RQD %
0	1A	0.0	0.5	SS/18	1-2-3-3		Topsoil an						5
1	1B	0.5	2.0							mf SAND, trace fin	ne GRAVEL		
1							(moist, me	aium stiff	)				
2	2	2.0	4.0	SS/17	2-3-3-3		Light Broy	vn SILT a	nd en	nf SAND, little mf	GRAVEL		6
	_			22,1,	2000		(moist, me			22 ,	0141.22		
3									,				
4	3	4.0	4.7	SS/6	2-100/2"		_			cmf SAND, trace I	ROCK fragment	s,	100+
							trace CLA						
5							Auger Refi Bottom of						
6							Dottom of	Doring at	7.0				
7													
8													
9													
10													
11													
12													
13													
1.4													
14													
15													
16													
17													
18													
19													
20	Ī	Ī	Ī	Ī		1	1						

			E		orporate Drive	SU	JBSURFA	ACE EX	(PL	ORATION	Boring No.		-43
			la c		racuse, NY 13057			BORI			Page No.		of 1
		ociates			315-701-0522		1201		., .	200	Report No.		1-0523-R1
Project	Name:			us, Clay,	New York						Date Started		18/23
Client:		Rambo									Date Finished		18/23
Location	n:			n Locati		N.T			CD	OUNDWATED	Surface Elev.		6.3'
Driller:		B. Flet		DS OF	INVESTIGATIO	3 ¼" ID	II C A		GN	ROUNDWATER	OBSERVAI	IUNS	
Driller:		R. Cas			Casing: Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	rc. Cus	atem		Other:			04/18/23		While Drilling	none noted	ç	0.9
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	04/18/23		ore Casing Removed	none noted	9	0.9
Type:		ATV			Hammer Wt:	140 lbs.		04/18/23		er Casing Removed	none noted	C	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/18/23	Afte	er Casing Removed	caved @ 5.0	C	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SSIFICATION C	F MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	3.5.		0% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/12	1-2-2-3		Topsoil and				CODAVEL		4
1	1B	0.5	2.0				ROOT Hai			fine SAND, trace c	mi GRAVEL, t	race	
1							KOO1 11a	iis (iiioisi,	mea	iuiii siiii)			
2	2	2.0	4.0	SS/15	3-3-3-4		Light Brow	n cmf SA	ND:	and SILT, trace fin	e GRAVEL, tra	ce	6
							ROOT Hai				,,		
3								` .					
4	3	4.0	6.0	SS/20	3-5-4-12		_	vn SILT, t	race	cmf SAND, trace f	ine GRAVEL (1	noist,	9
							stiff)						
5													
(	4	6.0	8.0	SS/18	9-7-12-16		I :-1-4 D	CII T. 1	:441	CDAVEL 4	for CAND		19
6	4	0.0	8.0	35/18	9-7-12-10		_			mf GRAVEL, trace noist, very stiff)	Time SAND		19
7							liace Roe.	ix magnici	1105 (11	noist, very stirry			
,													
8	5	8.0	9.7	SS/16	20-28-36-100/3		Light Brow	n/Grey S	ILT a	and cmf GRAVEL,	little cmf SAN	D,	64
							little ROCI	K fragmer	nts (n	noist, hard)			
9													
10							Auger Refi						
10							Bottom of	Boring at	9.9				
11													
11													
12													
13													
<b>.</b>													
14													
15													
13													
16													
17													
18													
10													
19													
<u> </u>													

		N/		6035 Co	orporate Drive	SI	J <b>BSURF</b>	ACE EX	KPL	ORATION	Boring No.	_	-44
				-	racuse, NY 13057			BORI			Page No.		of 1
		ciates		1 1101101 .	315-701-0522		11201	DOM	10	LOG	-		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		18/23
Client:		Rambo									Date Finished		18/23
Location	n:			on Locati		<b>3</b> .7	1		~		Surface Elev.		7.9'
				DS OF	INVESTIGATIO				Gl	ROUNDWATER	OBSERVAT	TONS	
Driller:		B. Flet R. Cas			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto		R. Cas	atem		Casing Hammer: Other:			04/18/23		While Drilling	9.0	1	2.0
Drill Ri		CME 5	550Y		Soil Sampler:	2" OD S	Split Barrel	04/18/23	Ref	Fore Casing Removed	9.0		2.0
Type:	g.	ATV	)J0A		Hammer Wt:	140 lbs.	piit Darrei	04/18/23		ter Casing Removed	5.4		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/18/23		ter Casing Removed	caved @ 5.6		out
			BOR		AMPLES	1	VIS			SSIFICATION C	)		
D (1		1	e Depth										CDT ID III
Depth Scale	Sample	Sample (F		Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and - 35 to 50	0% / some - 20 to 35	0/0	SPT "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1A	0.0	1.0	SS/19	WH-2-2-3		Topsoil and	d Organic	Ma	tter (wet)			4
							L						
1	1B	1.0	2.0							fine SAND, trace f	ine GRAVEL,		
								,		t, medium stiff)			
2	2	2.0	4.0	SS/18	2-3-3-3				ittle	cmf GRAVEL, trac	ce cmf SAND (n	noist,	6
2							medium sti	itt)					
3													
4	3	4.0	6.0	SS/20	2-3-10-14		Light Dear	m CII T 1	:++1~	mf GRAVEL, trace	fina SAND (m	oist	13
4	3	4.0	0.0	33/20	2-3-10-14		stiff)	vii SiL1, i	ille SAND (III	oist,	13		
5							Suii)						
6	4	6.0	8.0	SS/14	17-20-30-30		Grey SILT	, little cm	f GR	RAVEL, trace mf SA	AND, trace ROC	CK	50
							fragments			,			
7													
8	5	8.0	10.0	SS/22	13-14-15-28					RAVEL, trace mf SA	AND, trace ROC	CK	29
0							fragments	(wet, very	stif	f)			
9													
10													
10													
11													
12	6	12.0	12.0	SS/0	100/0"		No Recove	ry, Auger	Refi	usal at 12.0'			100+
							Bottom of	Boring 12	.0'				
13													
14													
15													
15													
16													
17													
18													
10													
19													
20													

		N/		6035 Co	orporate Drive	SI	IRSURF	ACE EX	XPLORATION	Boring No.	В-	-45
		IV		East Sy	racuse, NY 13057					Page No.	1 (	of 1
	Asso	ciate	s, Inc.	Phone:	315-701-0522		TEST	BOKI	NG LOG	Report No.	28062B-0	1-0523-R1
Project 1	Name:	Micron	n Camp	us, Clay,	New York					Date Started	04/1	18/23
Client:		Rambo	oll	-						Date Finished	04/1	18/23
Location	1:	See Ex	ploration	n Locati	on Plan					Surface Elev.	39	9.9'
		ME	THO	DS OF	INVESTIGATIO	N			GROUNDWATER	OBSERVAT	TIONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	ъ.	T:	D (1.07()	<i>a</i> .	A ( (T) ( )
Driller:		R. Cas	atelli		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:				Other:			04/18/23	While Drilling	none noted	1′	7.7
Drill Rig	<b>;:</b>	CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	04/18/23	Before Casing Removed	none noted	1′	7.7
Type:		ATV			Hammer Wt:	140 lbs.		04/18/23	After Casing Removed	none noted	О	out
Rod Size	e:	AWJ			Hammer Fall:	30 in.		04/18/23	After Casing Removed	caved @ 5.7	О	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	<b>LASSIFICATION (</b>	F MATERIA	L	
Depth		Sample	e Depth		Blows on		C	- coarse				SPT "N"
Scale	Sample	_	řt.)	Type / Sample	Sampler	Depth of Change		medium	and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 10°		RQD %
0	1A	0.0	1.8	SS/19	WH-1-3-7				Matter (wet)			4
	1B	1.8	2.0				Light Brov	vn SILT, t	race mf SAND (moist,	medium, stiff)		
1												
2	2	2.0	4.0	SS/17	8-10-7-6				race mf GRAVEL, trac	e fine SAND		17
3							(moist, ver	y stiii)				
4	3	4.0	6.0	SS/16	8-6-7-7		Light Brov	vn SILT, t	race fine GRAVEL, tra	ce mf SAND (m	noist,	13
5							Suii)					
6	4	6.0	8.0	SS/22	6-5-8-10		Light Brov stiff)	vn SILT, s	some cmf SAND, trace	mf GRAVEL (n	noist,	13
7												
8	5	8.0	10.0	SS/20	13-16-18-34		Grey/Brow trace cmf S		ome cmf GRAVEL, litt oist, hard)	le ROCK fragm	ents,	34
9												
10												
11												
12												
13	6	13.5	15.5	SS/18	11-15-17		Grey CII T	little om	f GRAVEL, little fine S	AND (moist ha	urd)	32
14	U	13.3	13.3	00/10	11-13-1/		oley SIL1	, muc cill	i OKA v EL, iiwic iiile S	THE (HOISE, HA	u <i>j</i>	32
15												
16												
17	_											
18	7	17.7	17.7	SS/0	100/0"		No Recove Bottom of		17.7'			100+
19												
				Ī	1	Ī						Ī

		N	F		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	KPL	ORATI	ON	Boring No.		-50
	Acce	ociates	Inc		racuse, NY 13057		TEST	BORI	NG	LOG		Page No.		of 1
				I momen.	315-701-0522							-		01-0523-R1
Project Client:	Name:	Rambo		us, Clay,	New York							Date Started Date Finished		18/23 18/23
Locatio	n•			on Locati	on Plan							Surface Elev.		96.6'
Locatio	ш.				INVESTIGATIO	N			Gl	ROUNDY	WATER	OBSERVAT		70.0
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	5.						4 . (77.1)
Driller:		R. Cas	atelli		Casing Hammer:			Date		Time		Depth (Ft.)	Casing	g At (Ft.)
Inspecto					Other:			04/18/23		While Dri		none noted		4.5
Drill Ri	g:	CME 5	550X		Soil Sampler:		Split Barrel	04/18/23		fore Casing l		none noted	1	4.5
Type:		ATV			Hammer Wt:	140 lbs.		04/18/23		ter Casing F		none noted		out
Rod Siz		AWJ	DΩDI	INC S	Hammer Fall: AMPLES	30 in.	1/16	04/18/23		ter Casing F		caved @ 7.0 OF MATERIA		out
	LU					1			LA	SSIFICA	HONC	JE WIATEKIA	LL.	1
Depth Scale	Sample	Sample (F	e Depth	1 ype /	Blows on Sampler	Depth of		coarse medium		000	d 25 to 50	% / some - 20 to 35	07	SPT "N"
(Feet)	No.	From	To	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine				20% / some - 20 to 33 20% / trace - 0 to 109		or RQD %
0	1A	0.0	1.0	SS/17	1-1-2-3		Topsoil and	d Organic	Ma					3
						l-	L							
1	1B	1.0	2.0					n SILT, l	ittle	cmf GRA	VEL, trac	ce cmf SAND (n	noist,	
2	2	2.0	4.0	SS/16	2-6-4-3		/	w CII T a	مامس	fCAND	~~~~	CDAVEL (ma	:	10
2	2	2.0	4.0	33/10	2-0-4-3	soft) Light Brown SILT and cmf SAND, some stiff)						I GKA VEL (IIIO	181,	10
3							Suii)							
4	3	4.0	6.0	SS/19	6-10-8-8		Light Brow	n SILT, l	VEL, trac	ee cmf SAND (n	noist,	18		
5						B Light Brown SILT, little cmf GRAVEL, t								
6	4	6.0	8.0	SS/15	10-12-14-20		Light Dear	m CII T 1	:++1.	mf CD A V	VEI troop	e fine SAND (m	oist	26
U	4	0.0	0.0	33/13	10-12-14-20		very stiff)	'II SIL I , I	ше	IIII OKA V	EL, nace	ille SAND (III	oist,	20
7							( orly solly)							
8	5	8.0	10.0	SS/16	13-10-10-10						ace ROC	K fragments, tra	ce	20
0							cmf SAND	(moist, v	ery	stiff)				
9														
10														
- 4														
11														
4.5														
12														
13														
13	6	13.5	14.4	SS/12	38-100/15"		Grev SILT	, little cm	f GR	RAVEL. lit	tle ROCE	K fragments (mo	ist.	100+
14	Ů	10.0		22/12	20 100/10		hard)	,		,,		i i i i giii i i i i i i i i i i i i i	.150,	100
							Auger Refu	isal at 14.	5'					]
15							Bottom of	Boring at	14.5	5'				
1.0														
16														
17														
1/														
18														
19														

		N	F		orporate Drive	St	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No.		124
		-1-4	la c	-	racuse, NY 13057		TEST	BORI	NG 1	LOG	Page No.		of 1
		ociates		I momer :	315-701-0522		1201						01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo		· .	71						Date Finished		26/23
Locatio	n:			n Locati	on Plan INVESTIGATIO	N.T			CD	ROUNDWATER	Surface Elev.		20.8'
Driller:		B. Flet		DS OF		3 ¼" ID	нсл		GR	COUNDWALER	OBSERVAI	IONS	
Driller:		R. Cas			Casing: Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspecto		R. Cas	atem		Other:			04/26/23		While Drilling	none noted	1	3.5
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	plit Barrel	04/26/23		ore Casing Removed	none noted		3.5
Type:	<b>.</b>	ATV			Hammer Wt:	140 lbs.	1	04/26/23		er Casing Removed	none noted		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/26/23		er Casing Removed	caved @ 6.0	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	TD /	Blows on	D 4 6	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109	%	RQD %
0	1A	0.0	1.0	SS/20	WH-WH-1-2		Topsoil and	d Organic	Matt	ter (wet)			1
1	1B	1.0	2.0				Light Brow	vn SILT, 1	ittle (	emf SAND (moist,	very soft)		-
2	2	2.0	4.0	SS/19	7-10-15-19		Light Brow	vn SILT, s	ome	cmf SAND, trace i	mf GRAVEL (m	noist,	25
3							very stiff)			`			
3													
4	3	4.0	6.0	SS/20	13-17-20-27		Light Brow	vn SILT, s	cmf SAND, trace f	fine GRAVEL (1	moist,	37	
							hard)						
5													
6	4	6.0	7.6	SS/18	29-46-95-100/1"	hard)					fine GRAVEL (1	moist,	141
7							hard)						
8	5	8.0	8.4	SS/5	100/5"		Grey/Brow	n cmf SA	ND,	some mf GRAVEI	L, trace SILT (m	oist,	100+
							hard)						
9													
10													
11													
12													
13													
13	6	13.5	13.9	SS/5	100/5"		Grey SILT	, some cm	ıf SA	ND, trace fine GR	AVEL (moist, h	ard)	100+
14							Bottom of	Boring at	13.9'				-
15							2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						
16													
17													
18													
19													
2.2													

				(025.0	D '						Roving No	D	125
		V			orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No. Page No.		of 1
	Ass	ociates	. Inc	-	racuse, NY 13057 315-701-0522		TEST	BORI	NG ]	LOG	Report No.		of 1 01-0523-R1
Project	_				New York						Date Started		25/23
Client:	vaine.	Rambo		us, Ciay,	New Tork						Date Started  Date Finished		25/23
Location	1:			on Locati	on Plan						Surface Elev.		22.1'
			•		INVESTIGATIO	N			GR	OUNDWATER		IONS	
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casina	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:								
Inspecto					Other:			04/25/23		While Drilling	11.2		3.5
Drill Rig	g:	CME 5	550X		Soil Sampler:		plit Barrel	04/25/23		ore Casing Removed	11.2		3.5
Type: Rod Siz	0.	ATV AWJ			Hammer Wt: Hammer Fall:	140 lbs. 30 in.		04/25/23		er Casing Removed er Casing Removed	none noted caved @ 9.0		out
Kou Siz			ROR1	ING SA	AMPLES	30 III.	VI			SIFICATION C			out
	LO		Depth						LAS	I	T WIATERIA		an
Depth Scale	Sample	Sample (F		Type / Sample	Blows on Sampler	Depth of Change		- coarse medium		and - 35 to 50	% / some - 20 to 35	0/0	SPT "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1A	0.0	1.0	SS/16	WH-WH-2-1		Topsoil and	d Organic	Matt	ter (wet)			2
													]
1	1B	1.0	2.0	SS/10						emf SAND, trace fi	ine GRAVEL, tı	race	
2	2	2.0	4.0	SS/15	1-2-3-6		ORGANIC			oist, soft) mf SAND, trace fir	o CDAVEL (w	at	5
2	2	2.0	4.0	33/13	1-2-3-0		medium sti		IIIIC I	illi SAND, trace ill	ie GRAVEL (w	ει,	]
3							medium str	111)					
4	3	4.0	6.0	SS/22	27-37-15-28		Light Brow	vn SILT, 1	ittle 1	mf SAND, little cm	nf GRAVEL (mo	oist,	52
							hard)						
5													
6	4	6.0	8.0	SS/17	18-40-37-33		Light Dear	m CII T 1	;++1a /	emf GRAVEL, trac	o amf SAND (n	naist	77
U	4	0.0	8.0	33/1/	10-40-37-33		hard)	VII SILI, I	ittie (	ann OKAVEL, nac	e ciii sand (ii	HOISt	/ /
7							nara)						
8	5	8.0	10.0	SS/23	11-17-42-28		Light Brow	vn SILT, 1	ittle o	emf SAND, trace C	CLAY (moist, ha	ırd)	59
9													
10													
11													
12													
12													
13	6	13.5	15.0	SS/18	16-24-49		Grey SII T	little fin	- C 1 1	ND, trace CLAY (r	noist hard)		73
14	J	13.3	13.0	55/10	10-2 <b>4-4</b> 3		Oley SIL1	, 111110 11110	J DAI	. TD, HACE CLAT (I	noist, natuj		13
15							Bottom of	Boring at	15'				1
16													
17													
17													
18													
19													
20													

		N/		6035 Cd	orporate Drive	SI	IRSURFA	ACE EX	(PL	ORATION	Boring No.	B-	126
		IV			racuse, NY 13057			BORI			Page No.	1	of 1
		ciates		I momer.	315-701-0522		11201	BUKI	10	LUG		28062B-0	01-0523-R1
Project				us, Clay,	New York						Date Started		25/23
Client:		Rambo									Date Finished		25/23
Locatio	n:			n Locati	on Plan INVESTIGATIO	Nī			CI	ROUNDWATER	Surface Elev.		1.6'
Driller:		B. Flet		DS OF	Casing:	3 ¼" ID	нсл		Gr	COUNDWAIEN		IONS	
Driller:		R. Cas			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:				Other:			04/25/23		While Drilling	2.7	4	1.6
Drill Ri	g:	CME 5	50X		Soil Sampler:	2" OD S	Split Barrel	04/25/23	Befo	ore Casing Removed	11.2	1	3.5
Type:		ATV			Hammer Wt:	140 lbs.		04/25/23		er Casing Removed	2.6	C	out
Rod Siz		AWJ			Hammer Fall:	30 in.		04/25/23		er Casing Removed	caved @ 3.5		out
	LO	ı		ING SA	AMPLES		VIS	SUAL C	LAS	SSIFICATION C	OF MATERIA	L	
Depth			Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale (Feet)	Sample No.	(F From	t.) To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			% / some - 20 to 35 0% / trace - 0 to 109		or RQD %
0	1	0.0	2.0	SS/6	WH-3-3-3	(Ft.)	Topsoil and		Mat		.0767 trace - 0 to 10.	/0	6
•	_						l - F	8		()			
1							<u> </u>						
2	2	2.0	4.8	SS/6	2-2-2-1		_		race	cmf SAND, trace f	ine GRAVEL (1	noist,	4
3							medium sti		attam	ınt			
3							No recover	y on 1 C					
4	3	4.0	6.0	SS/15	WH-WH-2-3		Light Brow	n SILT, s	cmf SAND (wet, s	oft)		2	
						No recovery on 1 st attempt					,		
5													
_													
6	4	6.0	8.0	SS/20	8-17-16-18		Light Brow	vn SILT, I	itte c	emf SAND, trace m	f GRAVEL (we	t, hard)	33
7													
,													
8	5	8.0	10.0	SS/20	13-25-31-50		Light Brow	n SILT, l	ittle	mf GRAVEL, little	cmf SAND (mo	oist,	56
							hard)						
9													
10													
10													
11													
12													
1.2													
13	<i>c</i>	12.5	140	SS/14	20 00 100/4"		Cross CII T	go	to,	ND (maint 1 1)			100+
14	6	13.5	14.8	33/14	28-80-100/4"		Grey SIL1	, some cm	н 5А	AND (moist, hard)			100+
17													
15							Bottom of	Boring at	14.8	1			1
16													
1.7													
17													
18													
19													

				6025 C	amanata Drive						Boring No.	D	127
	0	V	E		orporate Drive racuse, NY 13057	SU				ORATION	Page No.		of 1
	Ass	ciates	, Inc.	-	315-701-0522		TEST	BORI	NG ]	LOG	Report No.		01-0523-R1
Project					New York						Date Started		25/23
Client:		Rambo		,,							Date Finished		25/23
Location	n:	See Ex	ploratio	on Locati	on Plan						Surface Elev.	42	0.6'
		ME	THO	DS OF	INVESTIGATIO	N			GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		R. Cas			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casino	At (Ft.)
Driller:		B. Flet	cher		Casing Hammer:							_	, , ,
Inspecto					Other:	211.00.0	1 11: D 1	04/25/23		While Drilling	none noted		3.5
Drill Ri	g:	CME 5	50X		Soil Sampler: Hammer Wt:	2" OD S	plit Barrel	04/25/23		ore Casing Removed	none noted		3.5
Type: Rod Siz	۵•	AWJ			Hammer Fall:	30 in.		04/25/23		er Casing Removed er Casing Removed	none noted		out
Rou SIZ			BOR	ING SA	MPLES	30 m.	VIS			SIFICATION C	F MATERIA	I.	
ъ л	LU		Depth						2710		71 WHILEKI		CDT ID III
Depth Scale	Sample	(F		Type / Sample	Blows on Sampler	Depth of Change		coarse medium		and - 35 to 50	% / some - 20 to 35	%	SPT "N" or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/12	4-2-2-5		Light Brow	vn SILT, l	ittle c	emf SAND, trace fi	ine GRAVEL, tı	race	4
							ORGANIC	Material	s (mo	oist, medium stiff)			
1													
2	2	2.0	4.0	00/12	7.5.10.40		I : 1. D			CCAND	CCDAVEL	<del>-,-</del> -	1.7
2	2	2.0	4.0	SS/13	7-5-12-42		very stiff)	vn SIL1, s	some	cmf SAND, trace i	mi GRAVEL (m	101ST,	17
3							very sum)						
3													
4	3	4.0	6.0	SS/19	17-21-25-43		Light Brow	vn SILT, s	ome	cmf SAND, trace i	mf GRAVEL (m	noist,	46
							hard)				`	-	
5													
6	4	6.0	7.7	SS/19	45-64-88-100/3"		_	vn SILT, s	ome	cmf SAND, trace i	mf GRAVEL (m	noist,	152
7							hard)						
,													
8	5	8.0	8.9	SS/10	47-100/5"		Grey SILT	, some cm	of SA	ND, little mf GRA	VEL (moist, ha	rd)	100+
								•		,		,	
9													
10													
1.1													
11													
12													
13													
	6	13.5	15.0	SS/18	69-78-95		Grey SILT	, some cm	of SA	ND, little mf GRA	VEL (moist, har	rd)	173
14													
1.5							Dotter C	Dan!	15.0'				
15							Bottom of	boring at	13.0'				
16													
10													
17													
18													
10													
19													
20													1

		N/	E		orporate Drive	SU	JBSURFA	ACE EX	(PL	ORATION	Boring No.		128
					racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 1
		ociate		I momen.	315-701-0522		11251	DOM	. 10	L00	-		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			n Locati		·N.T			CI		Surface Elev.		19.5'
Driller:				DS OF	INVESTIGATIO		TI C A		Gi	ROUNDWATER	OBSERVAI	IONS	
Driller:		B. Flet R. Cas			Casing: Casing Hammer:	3 ¼" ID	н.з.А.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspecto		R. Cas	atciii		Other:			04/26/23		While Drilling	1.8	1	3.5
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	04/26/23	Bef	Fore Casing Removed	1.8		3.5
Type:	8,	ATV			Hammer Wt:	140 lbs.	-	04/26/23		ter Casing Removed	1.3		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/26/23		ter Casing Removed	caved @ 7.4		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C		SSIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth		Blows on	D 1 0	c -	coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109	%	RQD %
0	1A	0.0	1.0	SS/17	WH-WH-2-1		Topsoil and	d Organic	Mat	tter (wet)			2
1	1B	1.0	2.0				_	n SILT, l	ittle	fine SAND, trace C	ORGANIC Mate	rials	
2	_	2.0	4.0	00/17	2 2 7 9		(wet, stiff)	CII T		CCAND	CODANEL	. ,	0
2	2	2.0	4.0	SS/17	2-2-7-8		GRAVEL			e cmf SAND, some	mī GRAVEL (n	noist,	9
3							Looks Rew	,	.11)				
3							LOOKS NEW	ornea					
4	3	4.0	6.0	SS/15	4-28-59-24		Brown SIL	T and mf	AVEL, little cmf SA	AND. trace CLA	Y	87	
-							(moist, har		· - ·,	,			
5	1							,					
6	4	6.0	8.0	SS/24	8-20-27-42		_	n SILT, 1	ittle	cmf SAND, trace f	ine GRAVEL (n	noist,	47
_							hard)						
7													
8	5	8.0	8.7	SS/8	51-100/4"		Croy CIL T	little em	f C A	ND, little mf GRA	VEI (maint han	4)	100+
0	3	0.0	0.7	33/6	31-100/4		Gley SIL1	, mue cm	ı sa	ND, IIIIIE IIII GKA	v EL (moist, mar	u)	100+
9													
10	ĺ												
11													
12													
12													
13	6	13.5	14.3	SS/7	66-100/4"		Grov SII T	little em	f Q A	ND, trace mf GRA	VEL (moist har	·4)	100+
14	0	13.3	14.5	33//	00-100/4		GICY SIL1	, muc cm	I SA	ND, trace iii GKA	v EL (moist, nai	u)	100
1.							Bottom of	Boring at	14.3	1			
15								5					
16													
17													
10													
18													
19													
2.0	1	I	I			I	1						1

	C	V	E		orporate Drive	SU	JBSURFA	ACE EX	KPLORATION	Boring No. Page No.		129 of 2
	Acer	ciates	Inc	•	racuse, NY 13057		TEST	BORI	NG LOG	Ü		
		7 1 2 2 2 2 3		1 mone.	315-701-0522					Report No.		01-0523-R1
Project N	Name:			us, Clay,	New York					Date Started		20/23
Client:		Rambo								Date Finished		20/23
Location	:			n Locati				1		Surface Elev.		8.8'
				DS OF	INVESTIGATIO				GROUNDWATER	R OBSERVAT	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date	Time	Depth (Ft.)	Casino	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:					• , ,		
Inspecto					Other:			04/20/23	While Drilling	3.0		1.0
Drill Rig	:	CME 5	50X		Soil Sampler:		Split Barrel	04/20/23	Before Casing Removed	4.0	2	9.8
Type:		ATV			Hammer Wt:	140 lbs.		04/01/23	After Casing Removed	1.2	(	out
Rod Size		AWJ			Hammer Fall:	30 in.		04/20/23		caved @ 24.5		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFICATION (	OF MATERIA	\L	
Depth		Sample	Depth	T. /	Blows on	D 4 6	c -	coarse				SPT "N"
	Sample	(F		Type / Sample	Sampler	Depth of Change		medium	and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine	little - 10 to 2	20% / trace - 0 to 10	%	RQD %
0	1	0.0	2.0	SS/8	WH-2-2-1		Topsoil an	d Organio	c Matter (moist)			4
1												
							† - <del></del> -					1
2	2	2.0	4.0	SS/5	2-2-2-3		n cmf SA	AND and SILT, some Cl	LAY, trace fine		4	
						se)						
3								,	,			
4	3	4.0	6.0	SS/14	5-5-4-7		Brown SIL	T and cm	of SAND, some CLAY,	trace fine GRA	VEL.	9
							trace ROO				,	
5								10 (111010)	, 2011)			
6	4	6.0	8.0	SS/15	9-12-21-36		Light Brow	n/Grev S	ILT, trace fine SAND,	trace fine GRAV	/EL	33
	•	0.0	0.0	25,10	7 12 21 50		(moist, har		121, 1110 11110 1111 12,			
7							(1110101) 1141	<del></del> )				
,												
8	5	8.0	8.9	SS/8	22-100/5"		Grev SILT	. little cm	f SAND, trace fine GRA	AVEL (moist, h	ard)	100+
		0.0	0.5	22.0			010) 5121	,		1 , 22 (110100, 11		100
9												
10												
10												
11												
12												
13												
15	6	13.5	14.3	SS/8	38-100/4"		Grev SILT	. little cm	f GRAVEL, little cmf S	SAND (moist, ha	ırd)	100+
14	Ü	13.5	1 1.5	55/0	30 100/1		GIC) SILI	, 0111	i Grai ( EE, muie emi s	in (B (moist, ne		100
11												
15												
1.0												
16												
10												
17												
1 /												
18												
10	7	18.5	20.0	SS/18	26-37-56		Grev CII T	little om	f SAND, trace mf GRA	VFI (mojet has	rd)	93
19	/	10.3	20.0	20/10	20-37-30		Oley SIL1	, mue cili	i sand, have iii GRA	v LL (IIIOISI, IIAI	iu)	73
17												
				Ī	1	1						1

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. B-129 Page No. 2 of 2 Report No. 28062B-01-0523-R1

					315-701-0522		TEST BOILING		<b>Report No.</b> 28062B-	01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION C	OF MATERIAL	
Depth Scale (Feet)	Sample No.	Sample (F From	Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		% / some - 20 to 35% 0% / trace - 0 to 10%	SPT "N" or RQD %
20										
22										
23	8	23.5	25.0	SS/18	64-96-99		Grey SILT, little cmf GRA	AVEL, trace cmf S	SAND (moist, hard)	195
25										
26										
27										
28	9	28.5	29.3	SS/9	61-100/4"		Grey SILT, trace cmf GR	AVEL trace cmf S	SAND (moist_hard)	100+
29		20.3	27.3	55/7	01 100/1		Auger Refusal at 29.8'			100
30	10	29.8	34.8	C/60			3.1' of a mixture of COBE not recovered		AL TILL. 1.9' of core	
31							Recovered Core ended in	Glacial Till.		
32										
34										
35							Bottom of Boring at 34.8'			
36										
37										
38										
39										
40										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	(PL	ORATION	Boring No.		130
	Acc	ociate	luc		racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 1
					315-701-0522		120				Report No.		)1-0523-R1
Project	Name:			us, Clay,	New York						Date Started		27/23
Client:		Rambo		<u> </u>	D1						Date Finished		27/23
Locatio	n:			n Locati		NAT.			CI		Surface Elev.		8.8'
<b>.</b>				DS OF	INVESTIGATIO		TT 0 1		Gh	ROUNDWATER	OBSERVAI	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspect		R. Cas	atem		Casing Hammer: Other:			04/27/23		While Drilling	4.5		3.0
Drill Ri		CME 5	550V		Soil Sampler:	2" OD 9	Split Barrel	04/27/23	Dof	ore Casing Removed	6.9		8.5
Type:	g.	ATV	)J0A		Hammer Wt:	140 lbs.	-	04/27/23		er Casing Removed	1.3		out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		04/27/23		er Casing Removed	caved @ 5.2		out
1104 511			ROR	ING S	AMPLES	0 1111	VI			SSIFICATION C	)		
		1		110 52					1111		or white Etter		T
Depth Scale	Sample		e Depth (t.)	Type /	Blows on	Depth of		coarse medium		and 25 to 50	00/ / same 20 to 25	0/	SPT "N"
(Feet)	No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		- fine			0% / some - 20 to 35 20% / trace - 0 to 10°		or RQD %
0	1	0.0	2.0	SS/10	1-2-3-2	(11.)	Topsoil and		Mat		20707 11400 0 10 10	, 0	5
							F	8		()			
1													
2	2	2.0	4.0	SS/14	4-10-17-17		Brown SIL	T, little m	ıf GF	RAVEL, little cmf S	SAND, trace CL	AY	27
							(wet, very	stiff)					
3													
4	3	4.0	6.0	SS/12	18-95-26-16			-	ome	mf GRAVEL, little	e cmf SAND, tra	ace	121
							CLAY (mo	oist, hard)					
5													
6	4	6.0	8.0	SS/17	23-14-18-18		Light Brow	vn SILT a	nd m	of GRAVEL, some	cmf SAND (we	t, hard)	32
_													
7													
8	5	8.0	10.0	SS/11	47-81-37-21		Light Drov	m CII T 1	;++1a	cmf SAND, little fi	ino CDAVEL (v	rot	118
0	3	0.0	10.0	33/11	4/-01-3/-21		hard)	vii SiL1, i	Ittle (	ciiii sand, iille ii	ille GKAVEL (V	vei,	110
9							naru)						
10													
11													
12													
13													
	6	13.5	15.0	SS/12	31-28-16			vn SILT, s	ome	mf GRAVEL, little	e cmf SAND (w	ret,	44
14							hard)						
15													
1.0													
16													
17													
17													
18													
10	7	18.5	20.0	SS/18	16-25-36		Light Brow	n cmf S A	ND	and SILT, trace mf	GRAVEL (wet		61
19	′	10.5	20.0	10/10	10-25-50		very compa		עויוו	and bill, date illi	. OKA VEL (WEI	,	01
1)							, or y compa						
20	1		I	Ī			Rottom of	Doring 20	0'				1

	C	V	E		orporate Drive racuse, NY 13057	SU			KPLORATION	Boring No. Page No.		132 of 2
	Asso	ciates	. Inc.	•	315-701-0522		TEST	「BORI	NG LOG	Report No.		01-0523-R1
Danie and N		7 1 2 2 2 2 3		I momer.	New York					_		20/23
Project N	vame:			us, Ciay,	New York					Date Started		
Client:		Rambo		<u> </u>						Date Finished		20/23
Location	:			n Locati				1		Surface Elev.		0.3'
				DS OF	INVESTIGATIO				GROUNDWATER	R OBSERVAT	TONS	
Driller:		B. Flet	cher		Casing:	3 ¼" ID	H.S.A.	Date	Time	Depth (Ft.)	Cogina	At (Ft.)
Driller:		R. Cas	atelli		Casing Hammer:			Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r:				Other:			04/20/23	While Drilling	none noted	2.	3.5
<b>Drill Rig</b>	:	CME 5	50X		Soil Sampler:	2" OD S	Split Barrel	04/20/23	Before Casing Removed	none noted	2.	3.5
Type:		ATV			Hammer Wt:	140 lbs.		04/20/23	After Casing Removed	none noted	C	out
Rod Size	:	AWJ			Hammer Fall:	30 in.		04/20/23	After Casing Removed			
	LO	GOF	BORI	NG SA	AMPLES		VIS	SUAL C	LASSIFICATION (	F MATERIA	L	
Depth	G 1		Depth	Type /	Blows on	Depth of		- coarse	1 25 . 50	20 . 25	0.7	SPT "N"
	Sample	(F From	To	Sample	Sampler Per 6 Inches	Change		medium - fine		0% / some - 20 to 35 20% / trace - 0 to 10		or POD %
(Feet)	No.	0.8	1.0	Rec. (in.) SS/19	Per 6 Inches WH-WH-4-4	(Ft.)			Matter (wet)	20/0/ Hace - U to 10	/0	RQD %
U	1A	0.8	1.0	33/19	W П- W П-4-4		1 opson and	u Organic	ivialiei (wei)			4
1	1B	1.0 2.0 SS/19 Light Brown/Grey SILT, trace CLAY, t cmf SAND (moist, medium stiff) 2.0 4.0 SS/18 8-4-8-6 Light Brown SILT, some cmf SAND, tr GRAVEL (moist, stiff)								fine GRAVEL,	trace	
2	2	2.0	4.0	SS/18	8-4-8-6		Light Brow	vn SILT, s	some cmf SAND, trace	CLAY, trace fin	ie	12
3							GIGTVEL	(moist, sti	,			
4	3	4.0	6.0	SS/20	3-4-9-14		Light Brow GRAVEL		little cmf SAND, trace (	CLAY, trace fine	e	13
5							GRAVEL	(IIIOISI, SII	111)			
6	4	6.0	8.0	SS/15	12-30-33-38		Brown/Gre	ey SILT, t	race fine SAND (moist,	hard)		63
7												
8	5	8.0	10.0	SS/24	11-19-24-42		Grey SILT	, trace fin	e GRAVEL, trace fine	SAND (moist, h	ard)	43
9												
10												
11												
12												
13												
14	6	13.5	15.0	SS/18	27-38-59		Grey SILT	, trace fin	e SAND, trace fine GR	AVEL (moist, h	ard)	97
15												
16												
17												
10												
18	_	10.5	10.1	00/0	24 100/0"		C OIL T	· · · · · ·	- CAND 4 C CD	ANTEL ( ' · 1	<b>1</b> \	100:
19	7	18.5	19.1	SS/8	34-100/2"		Grey SILT	, trace fin	e SAND, trace fine GR	AVEL (moist, h	ara)	100+
						1						I

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. B-132 Page No. 2 of 2 **Report No.** 28062B-01-0523-R1

Associates, Inc. Phone: 315-701-0522						Report No. 28062B-01-0523-R1				
LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				1
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50 little - 10 to 2	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20										
21										
22										
23										
24	8	23.5	25.0	SS/16	34-44-100		Grey SILT, trace fine GR.	AVEL, trace fine	SAND (moist, hard)	144
25							Bottom of Boring at 25.0'			1
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40	]									
41										
42										
43										
44										
45	1'4 G						CH + D 1 W/D W	7 : 14 CD 1		

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		133 of 1
	Asso	ciate	s, Inc.	•	315-701-0522		TEST	BORI	NG	LUG	Report No.		01-0523-R1
Project	Name:	Micror	n Camp		New York	1					Date Started		25/23
Client:		Rambo									Date Finished	04/2	25/23
Locatio	n:	See Ex	ploration	on Locati	ion Plan						Surface Elev.	41	0.3'
					INVESTIGATIO	N			GI	ROUNDWATER		TIONS	
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	Б. /					A ( (T) ( )
Driller:		C. O'H	ara		Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect	or:	A. Sha	rma, E.	I.T.	Other:			04/25/23		While Drilling	8	1	3.5
Drill Ri	g:	CME 5	55		Soil Sampler:	2" OD S	Split Barrel	04/25/23	Bef	ore Casing Removed	9.1	1	8.5
Type:		ATV			Hammer Wt:	140 lbs.		04/25/23	Aft	ter Casing Removed	4	(	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/25/23		ter Casing Removed	caved @ 1.7		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SSIFICATION C	F MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	D. d. c	c -	coarse					SPT "N"
Scale	Sample		t.)	Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		little - 10 to 2	20% / trace - 0 to 10°		RQD %
0	1A	0.0	0.5	SS/14	WH-1-1-2	l	Topsoil and						2
	1B	0.5	2.0				Brown SIL	T, trace C	CLA	Y, trace fine SAND	(moist, soft)		
1													
2	2	2.0	4.0	SS/24	2-2-2-2		Brown SIL	T, little c	mf S	AND, trace CLAY	(moist, medium	stiff)	4
3													
	2	4.0		GG /0.4	1 4 0 11		D CII	TD 111 C		DANEL CI		ND	10
4	3	4.0	6.0	SS/24	1-4-8-11				ine G	GRAVEL, trace CL	AY, trace mf SA	AND	12
-	ŀ						(moist, stif	f)					
5													
6	4	6.0	8.0	SS/23	9-12-21-27		Brown/Gre	w SII T t	race	CLAY, trace cmf S	AND trace fine	2	33
0	_	0.0	0.0	33/23	9-12-21-27		GRAVEL			CLAT, nace chin s	MND, trace find		33
7							GIGIVEE	(inoist, no	ii a j				
8	5	8.0	10.0	SS/13	2-6-15-18		Grev SILT	. trace CL	AY.	trace mf GRAVEI	, trace cmf SAN	ND	21
							(moist, ver		ĺ		,		
9													
10	1												
11													
12													
13		12.5	15.0	00/0	10 17 27		g, .	1 1	,	1 1			,,
1 /	6	13.5	15.0	SS/8	10-17-27		Similar soi	ı as above	(mc	oist, nard)			44
14													
15													
13													
16													
10													
17													
1 '													
18													
	7	18.5	19.5	SS/12	38-100/6"		Grey cmf S	SAND and	d SIL	T, little mf GRAV	EL, trace ROCK	ζ.	100+
19							fragments						
													]
20	I	I	I	I	1	1	D 44 C	D	10.5				i I

20 Bottom of Boring at 19.5'
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
Remarks:

ſ						1				1			
		$\mathbf{N}$		6035 Co	orporate Drive	SU	JBSURFA	ACE EX	PL	ORATION	Boring No.		134
		IV		-	racuse, NY 13057			BORI			Page No.		of 1
		ciates		I momen.	315-701-0522		11231	DOM	10	LOG			1-0523-R1
Project				us, Clay,	New York						Date Started		20/23
Client:		Rambo									Date Finished		20/23
Location	n:			n Locati		<b>.</b>	1		- CT		Surface Elev.		1.5'
				DS OF	INVESTIGATIO				Gŀ	ROUNDWATER	OBSERVAT	IONS	
Driller:		G. Rich			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H		ıт	Casing Hammer: Other:			04/20/23		While Duilling	1.4	11	3.5
Inspecto Drill Ri		CME 5	rma, E.l	1.1.	Soil Sampler:	2" OD 9	Split Barrel	04/20/23	Dof	While Drilling ore Casing Removed	7.1		8.5
Type:	g:	ATV	))		Hammer Wt:	140 lbs.	-	04/20/23		er Casing Removed	1.4		out
Rod Siz	۰.	AWJ			Hammer Fall:	30 in.		04/20/23		er Casing Removed	caved @ 10.4		ut
rtou SIZ			RORI	NG S	AMPLES	30 III.	VIS			SSIFICATION C	0		
	LO			110 52							T WINTER		
Depth Scale	Sample	Sample (F	Depth	Type /	Blows on	Depth of		coarse medium		and 25 to 50	% / some - 20 to 35°	1/	SPT "N"
(Feet)	No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		- fine			% / some - 20 to 33 0% / trace - 0 to 10%		or RQD %
0	1A	0.0	0.5	SS/6	WH-1-1-1	(1 11)			rgan	ic Matter (moist)	0,0,000		2
	1B	0.5	2.0							Y, trace mf GRAVE	L, trace ROOT	S (moist	
1							soft)	Ź		•			
							ĺ						
2	2	2.0	4.0	SS/24	WH-1-4-6		Brown SIL	T, some c	mf S	SAND, little mf GR	AVEL (wet, me	dium	5
							stiff)						
3													
							<b>↓</b> - — - — -						
4	3	4.0	6.0	SS/18	9-31-35-57					ne cmf SAND, som	e SILT, trace C	LAY	66
_							(moist, ver	y compact	t)				
5													
6	4	6.0	7.9	SS/18	21-41-70-100/4"		Danarra CII	т 1:441	f C	DAVEL trace out	CAND (maint 1	المسما	111
6	4	0.0	7.9	55/16	21-41-70-100/4		Brown SIL	i, nuie ci	III G	RAVEL, trace cmf	SAND (moist,	nara)	111
7													
,													
8	5	8.0	10.0	SS/18	21-28-32-27		Brown SIL	T, little ci	mf G	RAVEL, trace cmf	SAND (moist,	hard)	60
								,		,	,	,	
9													
10													
11													
10													
12													
12													
13	6	13.5	14.3	SS/18	59-100 /4"		Croy CIL T	and CDA	VEI	L, trace CLAY (moi	ist hard)		100+
14	O	13.3	14.3	33/10	39-100 /4		Gley SIL1	and GKA	VEL	L, trace CLA I (IIIO)	ist, naru)		100+
17													
15													
15													
16													
17													
18													
	7	18.5	18.9	SS/5	100/ 5"		Similar as						100+
19							Bottom of	Boring at	18.9	•			
2.0													

	C	M	E		orporate Drive racuse, NY 13057	SUBSURFACE EXILORATION								
	Asso	ciates	, Inc.	•	315-701-0522		TEST	BORI	NG I	LOG	Report No.		of 1 01-0523-R1	
Project N	Vame:	Micron	Campi		New York	<u>l</u>					Date Started		20/23	
Client:		Rambo		,,,							Date Finished		20/23	
Location				on Locati	on Plan						Surface Elev.		2.5'	
Location	•				INVESTIGATIO	N			GR	OUNDWATER			2.3	
Driller:		G. Ricl		DS OF	Casing:	3 ¼" ID	ПСУ		- GK	OUNDWATER	ODSERVAI	10115		
Driller:		C. O'H			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)	
Inspector		A. Sha		īТ	Other:			04/20/23	,	While Drilling	6.4	1	3.5	
Drill Rig		CME 5		1.1.	Soil Sampler:	2" OD S	Split Barrel	04/20/23		re Casing Removed	7.2		8.5	
_		ATV	13		Hammer Wt:	140 lbs.	-	04/20/23			1.8			
Type:										r Casing Removed			out	
Rod Size		AWJ	DOD!	DIG G	Hammer Fall:	30 in.	¥ 7¥	04/20/23		r Casing Removed	caved @ 9.5		out	
	LO	J OF	BOK	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION (	OF MATERIA	<u>L</u>		
Depth			Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"	
	Sample	(F		Sample	Sampler	Change	m -	medium			% / some - 20 to 35		or	
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°	%	RQD %	
0	1A	0.0	0.5	SS/18	WH-1-1-2	<u> </u>	Topsoil &						2	
	1B	0.5	2.0				Brown SIL	T, trace C	CLAY	, trace fine GRAV	EL, trace ROO	Γ		
1							Hairs (moi	st, soft)						
							,	,						
2	2	2.0	4.0	SS/24	1-11-22-23		Brown SIL	T, little m	nf GR	AVEL, trace cmf	SAND (moist, h	ard)	33	
								,		,	,			
3														
4	4	4.0	6.0	SS/24	5-11-21-25		Similar as	ahove (mo	ard)			32		
•	•	1.0	0.0	55/21	3 11 21 23		Similar as	uoove (iii	uru)			32		
5														
3														
6	4A	6.0	7.0	SS/24	20-35-37-74		Similar as	ahove (we	at har	4)			72	
0	4A	0.0	7.0	33/24	20-33-37-74		Sillillai as	above (we	zi, mai	u)			12	
7	4B	7.0	8.0				Croy CII T		of CD	AVEL, trace cmf	SAND (majet b	and)		
/	4D	7.0	0.0				Gley SIL1	, some cm	II UK.	A VEL, trace cilii	SAND (IIIOISI, II	aru)		
0	_	0.0	10.0	00/24	22 29 (2 72		C/D	CII T		CDAVEL	CCAND		100	
8	5	8.0	10.0	SS/24	22-38-62-72				ome c	emf GRAVEL, sor	ne cmi SAND		100	
0							(moist, har	d)						
9														
10														
10														
,														
11														
10														
12														
10														
13		10 -								•				
	6A	13.5	14.5	SS/12	77-65-100/5"		Similar as	above (mo	oist, h	ard)			100+	
14														
	6B	14.5	15.0				Brown SIL	T and cm	f SAN	ND, little cmf GRA	AVEL (moist, ha	ırd)		
15														
16														
17														
18	7	18.5	19.9	SS/12	28-95-100/4"		Grey SILT	, some mf	GRA	VEL, little cmf S.	AND (moist, ha	rd)	100+	
							Bottom of	Boring at	19.9'				]	
19														

	C	V	E		orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		136 of 1
	Ass	ciate	. Inc.	•	315-701-0522		TEST	BORI	<b>NG</b>	LOG	Report No.		01-0523-R1
Project					New York						Date Started		20/23
Client:	Name:	Rambo		us, Ciay,	New York								
				T (*	DI .						Date Finished		20/23
Locatio	n:			n Locati		<b>N</b> T			CI		Surface Elev.		13'
<b>.</b>				DS OF	INVESTIGATIO		TT 0 1		Gr	ROUNDWATER	OBSERVAI	IONS	
Driller:		G. Rich			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H		īT	Casing Hammer: Other:			04/20/22		M1.1 D.11.			
Inspect		CME 5	rma, E.	1.1.		2" OD 6	21'4 D1	04/20/23	D.f.	While Drilling	4.5	1	8.5
Drill Ri	g:	ATV	))		Soil Sampler: Hammer Wt:	140 lbs.	Split Barrel	04/20/23		ore Casing Removed	1.3		
Type: Rod Siz		AWJ			Hammer Fall:	30 in.		04/20/23		er Casing Removed	_		out
Rou Siz			DOD	ING C		30 III.	X/T/			er Casing Removed	caved @ 5.2		out
	LO	1		ING SA	AMPLES		VIX	SUAL C	LAS	SSIFICATION C	JF MIATERIA	<u>L</u>	1
Depth			Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	1.		20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/15	WH-WH-2-2		Topsoil and						2
1	1B	0.5	2.0				Brown SIL	1, trace C	LAY	, trace ORGANIC	Materials (mois	st, soft)	
1													
2	2	2.0	4.0	SS/10	WH-2-4-6		Brown SIL		ND, trace mf GRA	VEL, trace CLA	ΛY	6	
3							(moist, me						
4	3	4.0	6.0	SS/13	4-4-4		Brown SIL medium sti		AND, trace fine G	RAVEL (wet,		8	
5								,					
6	4	6.0	8.0	SS/24	4-11-12-15		Brown SIL	T and mf	SAN	ID, trace cmf GRA	VEL (wet, very	stiff)	23
7													
8	5	8.0	10.0	SS/24	11-24-47-85		Brown/Gre	ey SILT aı	nd en	nf SAND, trace cm	f GRAVEL (mo	oist,	71
9													
10													
11													
12													
13													
	6	13.5	15.0	SS/16	36-61-81		Grey SILT	and cmf	SAN	D, trace cmf GRA	VEL (moist, har	d)	142
14													
15	]												
16													
17													
18													
10	7	18.5	19.3	SS/-	37-87-100/4"	SS/-	Grev SII T	some or	f S A	ND, little cmf GR	AVEL (mojet h	ard)	100+
19	,	10.3	17.3	55/-	37-07-100/4	55/-	Bottom of	Boring at	19.3'	ind, inde cilli GIV	TTLL (IIIOISI, III	u <i>j</i>	100
20	1												

		M			orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No.		137
			Time .		racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 1
			s, Inc.	I momer :	315-701-0522		1201	DOM		200	_	28062B-0	
Project				us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Location	n:			n Locati		N.T			CI		Surface Elev.		3.5'
n				DS OF	INVESTIGATIO		TT G .	1	Gh	ROUNDWATER	OBSERVAI	IONS	
Driller:		B. Flet			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto		R. Cas	atem		Casing Hammer: Other:			04/26/23		While Duilling	none noted	11	3.5
Drill Ri		CME 5	50V		Soil Sampler:	2" OD S	plit Barrel	04/26/23	Dof	While Drilling ore Casing Removed	none noted		3.5
Type:	g.	ATV	)JUA		Hammer Wt:	140 lbs.	piii Barrei	04/26/23		er Casing Removed	none noted		out
Rod Siz	۰.	AWJ			Hammer Fall:	30 in.		04/26/23		er Casing Removed	caved @ 8.4		out
Ttou SIZ			RARI		MPLES	50 m.	VI			SSIFICATION C	)		
	LO			III SE					LAK		or WIATEKIA		
Depth	C 1 .	Sample (F	Depth	Type /	Blows on	Depth of		coarse		1 254.50	20 + 25	n/	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			0% / some - 20 to 35 20% / trace - 0 to 109		or RQD %
0	1	0.0	2.0	SS/7	WH-1-2-2				nf G	RAVEL, little cmf			3
Ů	-	0.0	2.0	22. 7	***************************************		ORGANIC			·	2111.2, 11100		
1								1/10/01/01	(111	0.100)			
2	2	2.0	4.0	SS/8	8-7-6-10		Light Brow	n SILT, 1	ittle	cmf SAND, little m	nf GRAVEL (we	et, stiff)	13
										•	`	,	
3													
4	3	4.0	6.0	SS/17	7-9-11-8		Light Brow	n SILT, 1	ittle	cmf SAND, little m	nf GRAVEL (mo	oist,	20
							very stiff)						
5													
6	4	6.0	8.0	SS/20	7-10-16-21		Similar as a	above (mo	oist, v	very stiff)			26
_													
7													
0	_	0.0	10.0	00/10	10.25.40.64		G GILLE	111		NID . C CD.	A T T T (	10	0.2
8	5	8.0	10.0	SS/19	18-35-48-64		Grey SIL1	, little cm	SA.	ND, trace fine GRA	AVEL (moist, ha	ırd)	83
0													
9													
10													
10													
11													
11													
12													
12													
13													
14													
15													
	6	13.5	15.0	SS/18	31-57-63		Grey SILT	, trace mf	GRA	AVEL, trace cmf SA	AND (moist, har	rd)	120
16													
17							Bottom of	Boring at	15.0	'			
18													
10													
19													
2.0													

		N/	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	PL	ORATION	Boring No.		138
		-1-4			racuse, NY 13057		TEST	BORI	NG:	LOG	Page No.		of 1
		ociates		I momer :	315-701-0522		1131	DOM	. 10	LOG	_		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			n Locati		N.T			CI.	OLINDAY ATED	Surface Elev.		2.4'
D 311		B. Flet		DS OF	INVESTIGATIO	3 ¼" ID	II C A		GR	ROUNDWATER	OBSERVAI	IONS	
Driller: Driller:		R. Cas			Casing: Casing Hammer:	3 ¼" ID	н.5.А.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspect		R. Cas	atciii		Other:			04/26/23		While Drilling	11.3	1	3.5
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	04/26/23		ore Casing Removed	11.3		3.5
Type:	<b>5</b> *	ATV			Hammer Wt:	140 lbs.	T	04/26/23		er Casing Removed	4.3		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/26/23		er Casing Removed	caved @ 9.5	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C		SIFICATION C	OF MATERIA	L	
Depth		Sample	e Depth		Blows on	5 1 0	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109	%	RQD %
0	1A	0.0	1.0	SS/19	WH-WH-1-2		Topsoil &	Organic N	/latte	r			1
1	1B	1.0	2.0				_	vn SILT, l	cmf SAND, little fi	ne GRAVEL (n	noist,		
2	2	2.0	4.0	00/17	1 2 2 2		very soft)	OII T. 1	CCAND	CDANEL (			
2	2	2.0	4.0	SS/17	1-2-2-3		medium sti		emf SAND, trace fi	ine GRAVEL (v	vet,	4	
3							inedium su	111)					
4	3	4.0	6.0	SS/24	WH-1-5-10		Similar as	above (we	et, me	edium stiff)			6
5													
6	4	6.0	8.0	SS/16	21-29-47-88		Light Brow	m SII T c	ome	cmf SAND, little n	nf GP AVEL (m	oist	76
U	_	0.0	0.0	55/10	21-27-47-00		hard)	in Silli, s	onic	cim sand, nuc i	III GRAVEL (III	Ю131,	70
7							11u1 u)						
8	5	8.0	9.5	SS/14	42-85-95-100/0'		Grey SILT	, little cm	f SAl	ND, little mf GRAV	VEL (moist, har	d)	180
_													
9													
10													
10													
11													
12													
13		12.5	150	00/15	47. 22. 22		G 377.77	111	C	AID ( CCT )		1\	
1 /	6	13.5	15.0	SS/15	47-33-32		Grey SILT	, little cm	i SAl	ND, trace mf GRA	VEL (moist, har	a)	65
14													
15							Bottom of	Boring at	15.0'				1
								3	-				
16													
17													
1 /													
18													
10													
19													
20	I	1	I										

				6035 Co	orporate Drive	O.	IDCIIDE	A CIP IPY	DI 4	ODATION	Boring No.	B-	226
		IV			racuse, NY 13057					ORATION	Page No.		of 2
	Asso	ciate	s, Inc.		315-701-0522		TEST	BORI	NG.	LOG	Report No.	28062B-0	01-0523-R1
Project	Name:	Micron	Camp	us, Clay,	New York	<b>1</b> .					Date Started	04/	19/23
Client:		Rambo									Date Finished	04/	19/23
Locatio	n:			on Locati						_	Surface Elev.		00.1'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	TONS	
Driller: Driller:		B. Flet R. Cas			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Inspect		R. Cas	atciii		Other:			04/19/23		While Drilling	none noted	2	3.0
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	04/19/23		ore Casing Removed	none noted		3.0
Type:		ATV			Hammer Wt:	140 lbs.	-	04/19/23	Afte	er Casing Removed	none noted	(	out
Rod Siz		AWJ			Hammer Fall:	30 in.				er Casing Removed	caved @ 9.0		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	)F MATERIA	L	
Depth			Depth	Type /	Blows on	Depth of		- coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change	m -	medium			% / some - 20 to 35		or
(Feet)	No.	From 0.0	To 2.0	Rec. (in.) SS/18	Per 6 Inches WH-3-4	(Ft.)		- fine ev Mottled	SIL	T, little CLAY, tra	ce fine SAND (1		RQD %
	1	0.0	2.0	55/10	W11-3-4		medium sti	•	OIL	1, muc CL/11, ua	ce fine britis (i	moist,	,
1							PP=1.5, 1.	/					
2	2	2.0	4.0	SS/20	3-5-5-5		_	vn/Grey S	ILT a	and CLAY, trace m	of SAND (moist	,	10
2						stiff) PP=2.25, 2.0, 1.75							
3						PP=2.25, 2.0, 1.75							
4	3	4.0	6.0	SS/20	3-4-3-3		Light Brow	vn SILT, t	race	CLAY, trace fine S	SAND (wet, med	dium	7
						Light Brown SILT, trace CLAY, trace fine SAND (wet, medium stiff)							
5							ĺ						
_													
6	4	6.0	8.0	SS/21	3-4-5-5		Light Brow	vn SILT, t	race	CLAY (wet, stiff)			9
7													
,													
8	5	8.0	10.0	SS/21	3-4-4-5		Similar as	above (we	t, sti	ff)			8
9													
10													
10													
11													
12													
12													
13	6	13.5	15.0	SS/18	2-2-3		Similar as	ahove (we	t me	edium stiff)			5
14		13.3	15.0	00/10	<i>L-L-3</i>		Siliniai as	above (we	٠, ١١١٠	Januari Suri			
]													
15	1												
16													
17													
1 /													
18													
	7	18.5	20.0	SS/15	6-3-3				le fir	ne SAND, trace fin	e GRAVEL		6
19							(wet, medi	um stiff)					
20													
20	Ī	I			Ī	1	Ī						1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP=Pocket Penetrameter Results in tsf

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-226

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

					315-701-0522		TEST DOKING EV		Report No. 2806	2B-01-0523-R1
					AMPLES		VISUAL CLASSI	FICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20 21										
22										
23 24	8	23.0	23.0	SS/0	100/0"		Auger Refusal at 23.0' Bottom of Boring at 23.0'			100+
25	_									
26										
27										
28 29										
30	-									
31										
32										
33										
35										
36										
37										
38										
40	-									
41										
42										
43										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 C	orporate Drive	CI	IRSHDE	ACE EX	XPLORATION	Boring No.	B-2	227
		IV			racuse, NY 13057	30				Page No.	1 (	of 2
	Asso	ciate	s, Inc.	Phone:	315-701-0522		TEST	ROKI	NG LOG	Report No.	28062B-0	1-0523-R1
Project N	Name:	Micror	ı Camp	us, Clay.	, New York					Date Started	04/1	7/23
Client:		Rambo								Date Finished		7/23
Location	1:	See Ex	ploratio	n Locat	ion Plan					Surface Elev.	38	9.3'
			•		INVESTIGATIO	N			GROUNDWATER			- 10
Driller:		B. Flet			Casing:	3 ¼" ID	HSA					
Driller:		R. Cas			Casing Hammer:	3 /4 ID	11.5.71.	Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	r·		asthas, I	ΡF	Other:	NQ Cor	·e	04/17/23	While Drilling	8.5	24	4.0
Drill Rig		CME 5			Soil Sampler:	-	Split Barrel	04/17/23	U			4.0
Type:	<b>5•</b>	ATV	)J0A		Hammer Wt:	140 lbs.	-	04/17/23		5.8 (Remark 1)		ut
Rod Size		AWJ			Hammer Fall:	30 in.		04/17/23		caved @ 15.0		ut
Kou Size			DOD	NC C		30 III.	1/1/		U	)		ut
	LO	GOF	BOK	ING S	AMPLES		VI	SUAL C	LASSIFICATION (	JF MATERIA	\L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse				SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change		medium		0% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 109	%	RQD %
0	1	0.0	2.0	SS/17	1-1-3-4				Γ, some CLAY, trace Ro	OOTS		4
							(moist, me	dium stiff				
1												
2	2	2.0	4.0	SS/19	4-5-5-5		Light Brov	vn/Grey S	ILT, little CLAY (mois	t, stiff)		10
							PP = 0.75,	1.25, 1.0				
3												
4	3	4.0	6.0	SS/14	3-3-3-3		Light Brov	vn/Grey S	ILT, little CLAY, trace	ROOT Hairs (w	et,	6
							medium, st		,		,	
5								/				
6	4	6.0	8.0	SS/18	5-4-4-6		Light Brow	vn/Grev S	ILT, trace fine SAND (	wet_stiff)		8
Ü	•	0.0	0.0	55/10			PP = 0.75, (		illi, trace line brillio (	wei, still)		O
7							11 0.75,	0.75, 1.0				
,												
0	5	9.0	10.0	SS/23	4 4 4 4		Light Dags	···· CII T 4	trace CI AV (vvet stiff)			0
8	5	8.0	10.0	55/23	4-4-4		_		trace CLAY (wet, stiff)			8
0							PP=1.25,	1.0, 1.23				
9												
10												
11												
12												
13												
	6	13.5	15.0	SS/18	1-2-3				AY, trace fine SAND (	wet, medium sti	ff)	5
14							Soil is dila	tent				
15												
16												
17												
1,												
18												
10	7	18.5	20.0	SS/15	3-7-12		Grev SII T	little mf	SAND, trace cmf GRA	VEL (moist ver	v stiff)	19
19	,	10.5	20.0	55/13	3-7-12		Sicy Sill I	, 111110 11111	Simile, auto onn ONA	LL (IIIOISI, VCI	J 50111)	17
17												
		I	I	I								1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod PP=Pocket Penetrameter Results in tsf

Remarks: 1. Water Added for Coring

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-227** Page No. 2 of 2 **Report No.** 28062B-01-0523-R1

					315-701-0522			<b>Report No.</b> 28062B	-01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50% / some - 20 to 35% little - 10 to 20% / trace - 0 to 10%	SPT "N" or RQD %
20									
21									
22									
23									
24	8 9	23.5 24.0	23.5 29.0	SS/0 C/59	100/0"			Auger refusal at 24' htly weathered, medium to thickly (<1/8") of SHALE interbedded	100+ 95%
25							throughout core run.	( - )	
26							Recovery: 59"/60"=98% RQD: 57"/60"=95%		
27							5 pieces, 0" Chips and Fra	agments '-5.0', 1:00 to 1:15 min/ft., No water	
28							loss, Coring conduction is down pressure	n 5 th gear, 2,500 RPM, 500 PSI	
29							Bottom of Boring at 29'		
30	1								
31									
32									
33									
34									
35	1								
36									
37									
38									
39									
40	1								
41									
42									
43									
44									
45									

		V	E		orporate Drive racuse, NY 13057	SU	J <b>BSURF</b> A	ACE EX	KPI	LORATION	Boring No. Page No.		<b>229</b> of 2
	Assi	ciate	Inc		315-701-0522		TEST	BORI	NG	LOG	Ü		
Description											Report No.		01-0523-R1
Project Client:	Name:	Rambo		us, Ciay,	New York						Date Started		19/23
				T4:	D1						Date Finished		19/23
Locatio	n:			n Locati	INVESTIGATIO	NI			C	ROUNDWATER	Surface Elev.		01.9'
Driller:		B. Flet		DS OF	Casing:	3 ¼" ID	нсл		G	KOUNDWAIEK	ODSERVAI	IONS	
Driller:		R. Cas			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect		rc. Cus	atem		Other:			04/19/23		While Drilling	15.7	2	3.5
Drill Ri		CME 5	550X		Soil Sampler:	2" OD S	Split Barrel	04/19/23	Bef	fore Casing Removed	12.7		7.4
Type:	<b>.</b>	ATV			Hammer Wt:	140 lbs.	-	04/19/23		fter Casing Removed	5.8		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/19/23	_	fter Casing Removed	caved @ 11.8	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LA	SSIFICATION C	OF MATERIA	L	
Depth		Sample	Depth		Blows on		C -	coarse					SPT "N"
Scale	Sample		t.)	Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109		RQD %
0	1	0.0	2.0	SS/18	WH-WH-3-3		_	-		, little CLAY, trace	fine SAND, trac	ce	3
							ORGANIC	Material	s (m	noist, soft)			
1													
2		2.0	4.0	00/10	4554		T 1 4 D	/C C	пт	CT AND	CCAND (	. ,	10
2	2	2.0	4.0	SS/19	4-5-5-4		stiff)	/n/Grey S	ILI,	, some CLAY, trace	cmi sand (mo	oist,	10
3							PP=0.75, (	75 10					
3							11 - 0.75, (	7.75, 1.0					
4	3	4.0	6.0	SS/17	4-4-4		Light Brow	n Mottle	d SII	LT, little CLAY, tra	ce fine SAND		8
		1.0	0.0	55/17			(wet, stiff)	11 11101110		21, 11110 02111, 114	ce inic si i ve		
5	1						PP=0.5, 0.	75, 1.0					
6	4	6.0	8.0	SS/19	3-4-5-7		Light Brow	n SILT, t	race	CLAY (wet, stiff)			9
							PP=2.5, 2.	0, 2.25					
7													
	_	0.0	10.0	GG/20	5 7 7 7		G: '1	1 /		.:00			1.4
8	5	8.0	10.0	SS/20	5-7-7-7		Similar as	above (mo	oist,	stiff)			14
9													
9													
10	i												
11													
12													
1.0													
13	<i>(</i>	12.5	15.0	00/10	2 2 2		Light Co-	CII T 4		71 AV (***** 1".	atiff)		
14	6	13.5	15.0	SS/18	3-3-3		Light Grey	SIL1, tra	ice (	CLAY (wet, medium	ı suii)		6
14													
15	1												
16													
17													
18	_	10.5	20.0	ac / f	4044			OH 25 ::		CODATE	<del></del>	<del>-</del>	
10	7	18.5	20.0	SS/16	4-8-11			SILT, lit	tle n	nf GRAVEL, trace f	ine SAND (moi	st	19
19							very stiff)						
20	ł	I		Ī									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP=Pocket Penetrameter Results in tsf

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-229** Page No. 2 of 2 Report No. 28062B-01-0523-R1

	Asso				315-701-0522		TEST DOKING			28062B-01-052	23-R1
	LO			ING SA	MPLES		VISUAL CLAS	SIFICATION (	OF MATERIA	L	
Depth Scale (Feet)	Sample No.	Sample (F From		Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT o RQI	or
20				()		( /					-
21											
22											
23	8	23.5	25.0	SS/10	12-15-17		Light Grey SILT, little cm	nf GRAVEL, trace	e fine SAND, trac	te 3	32
24							ROCK fragments (wet, ha				
25											
26											
27	9	27.4	27.4	SS/0	100/1"		Auger Refusal at 27.4'				+00
28	9	27.4	27 <b>.4</b>	33/0	100/1		Bottom of Boring at 27.4'				10 1
29											
30											
31											
32											
33 34											
35											
36											
37											
38											
39											
40											
41											
42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		N/		6035 C	orporate Drive	SI	JBSURF A	ACE EX	PL	ORATION	Boring No.	B-	230
		IV	Ę		racuse, NY 13057			BORI			Page No.		of 1
					315-701-0522		11251	DOM	10	LOG	Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		25/23
Client:		Rambo									Date Finished		25/23
Locatio	n:		•	n Locati		·N.T			CD	OUNDAYATED	Surface Elev.		91'
Driller:		G. Rich		DS OF	INVESTIGATIO	3 ¼" ID	II C A		GR	COUNDWATER	OBSERVAI	IUNS	
Driller:		C. O'H			Casing: Casing Hammer:	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto			rma, E.	I.T.	Other:			04/25/23		While Drilling			
Drill Ri		CME 5			Soil Sampler:	2" OD S	Split Barrel	04/25/23		ore Casing Removed	15.2	1	8.5
Type:	•	ATV			Hammer Wt:	140 lbs.	-	04/25/23		er Casing Removed	5.5	(	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/25/23	Afte	er Casing Removed	caved @ 7.9	(	out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	T/	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/14	WH-WH-1-2		Topsoil and					. — - —	1
	1B	0.5	2.0				Brown SIL	T, little fi	ne S <i>i</i>	AND, trace CLAY	(moist, very sof	t)	
1													
2	2	2.0	4.0	SS/17	4-5-6-6		Brown SII	T trace f	na S	AND, trace CLAY	(mojet stiff)		11
2		2.0	7.0	55/17	4-3-0-0		DIOWII SIL	i, trace i	iic 5.	AND, HACE CLAT	(moist, stiff)		11
3													
4	3	4.0	6.0	SS/24	4-3-2-3		Brown SIL	T, trace C	LAY	(moist, medium s	tiff)		5
5													
_													
6	4	6.0	8.0	SS/24	1-1-1-1		Same as ab	ove (wet,	soft)	)			2
7													
,												. — - —	-
8	5	8.0	10.0	SS/14	2-2-4-3		Brown cmf	SAND a	nd m	f GRAVEL, little S	SILT, trace CLA	Υ	6
							(wet, loose			,	,		
9													
10													
1.1													
11													
12													
13													
	6A	13.5	14.0	SS/18	49-27-40		Brown SIL	T, little C	LAY	, trace cmf SAND	(wet, hard)		67
14	6B	14.0	15.0				Brown/Gre	y ROCK	fragn	nents mixed with c	mf SAND, mf		
							GRAVEL (	(wet)					
15													
16													
10													
17													
10	_	10.5	20.0	ac it c	15.05.44		D .	201275 1	•,,,• •	DOCK C	0.00		
18	7	18.5	20.0	SS/18	15-25-41				ittle l	ROCK fragments, t	trace mf GRAV	EL	66
19							(wet, very	compact)					
1)													
20	1	Ī		I	I	I	D C		201				1

20 Bottom of Boring at 20'
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
Remarks:

				6025 C	orporate Drive	1					Boring No.	R_	231
		IV	Œ		racuse, NY 13057	SU				ORATION	Page No.		of 2
	Asso	ciate	, Inc.		315-701-0522		TEST	BORI	NG ]	LOG	Report No.		01-0523-R1
Project					New York						Date Started		25/23
Client:	- 11111111	Rambo		,,,	1.0 1.0111						Date Finished		25/23
Locatio	n:			n Locati	on Plan						Surface Elev.	38	8.2'
					INVESTIGATIO	N			GR	OUNDWATER	OBSERVAT	IONS	
Driller:		G. Ric	nard		Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casina	At (Ft.)
Driller:		C. O'H			Casing Hammer:								, ,
Inspecto		A. Sha		I.T.	Other:			04/25/23		While Drilling	5.9		3.5
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	04/25/23		ore Casing Removed	9.2		1.6
Type: Rod Siz		ATV AWJ			Hammer Wt: Hammer Fall:	140 lbs.		04/25/23		er Casing Removed	2.5		out
Rou Siz			D/\Di	INC S	AMPLES	30 in.	VI			er Casing Removed SIFICATION C	caved @ 9.4		out
	LO			ING SE			V 18	SUAL C	LAS	SIFICATION	F MIATERIA	uL	1
Depth	G 1	Sample (F	Depth	Type /	Blows on	Depth of		- coarse		1 25 4 50	0// 20/ 25/		SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35° 0% / trace - 0 to 10°		or RQD %
0	1A	0.0	0.5	SS/12	WH-1-1-2	(1 t.)	Topsoil and		Matt		0707 trace - 0 to 107	-0	2
	1B	0.5	2.0							AND, trace CLAY	(soft, moist)		
1													
2	2	2.0	4.0	SS/24	3-3-3-3	Brown SILT, trace CLAY (medium stiff, moist)							6
2													
3													
4	3	4.0	6.0	SS/20	2-2-1-3	-3 Same as above (soft, wet)							3
4	3	4.0	0.0	33/20	2-2-1-3	Same as above (soft, wet)							3
5	1					-3 Same as above (soft, wet)							
6	4	6.0	8.0	SS/24	3-4-3-4		Same as ab	ove (wet,	med	ium stiff)			7
							PP=0.5, 1.	25, 1.25					
7													
	_	0.0	10.0	GG /0.4	2.5.6.5		D 611	<b></b>	6.0	AND GLAN			1.1
8	5	8.0	10.0	SS/24	3-5-6-7		Brown SIL	T, trace c	mf S.	AND, trace CLAY	(moist, stiff)		11
9													
9													
10													
11													
12													
12													
13	6	13.5	15.0	SS/18	2-4-10		Brown/C-	M T II W	race *	nf SAND, trace CI	AV (wat stiff)		14
14		13.3	13.0	00/10	∠ <del>-4-</del> 10		Olowin/QL6	y SILI, t	act I	in sand, have Cl	LAI (WEI, SIIII)		14
1 1							Augered H	ard at 15	,				
15	1					Augered Hard at 15'							
16													
17													
10													
18	7	18.5	20.0	SS/15	7-5-3		Gray amf	EAND on	1 mf /	CD A VEI 15441 - CH	T (wat madin	n stiff)	8
19	/	10.3	∠0.0	33/13	/-3-3		Giey cmi S	SAND and	ı IIII (	GRAVEL, little SI	Lı (wei, inediur	n suii)	0
17													
20	1												

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP=Pocket Penetrameter Results in tsf

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-231** Page No. 2 of 2 Report No. 28062B-01-0523-R1

					315-701-0522		TEST DOM: (G)		Report No. 28062	B-01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION C	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20					-			•		
21										
22	8	21.6	22.1	SS/6	100/6"		Grey cmf SAND and mf ( (wet, very compact)	GRAVEL, trace R	OCK fragments	100+
23							Bottom of Boring at 22.1'			
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	ΙE		orporate Drive	SU				LORATION	Boring No. Page No.		• <b>232</b> of 1
	Ass	ociate	s. Inc.	•	315-701-0522		TEST	BORI	NC	G LOG	Report No.		
Project					, New York						Date Started		25/23
	Name:	Rambo		us, Ciay,	, INEW TOIK								
Client:				T '	ian Dlan						Date Finished		25/23
Locatio	и:			on Locati		NT.				DOUNDWATER	Surface Elev.		87.8'
D				DS OF	INVESTIGATIO		TI C :		G	GROUNDWATER	OBSERVAT	IUNS	
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H		T.T.	Casing Hammer:				1			·	
Inspect			rma, E.	1.1.	Other:	211.075.0	11:00 1	04/25/23		While Drilling	4.5		3.5
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	04/25/23		efore Casing Removed	5.9		9.2
Type:		ATV			Hammer Wt:	140 lbs.		04/25/23		fter Casing Removed	1.5		out
Rod Siz		AWJ			Hammer Fall:	30 in.		04/25/23		After Casing Removed	caved @ 8.4		out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LA	ASSIFICATION (	)F MATERIA	L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	- coarse	_			_	SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/18	WH-WH-2-2		Topsoil an	d Organic	M	atter (moist)			2
	1B	0.5	2.0				Brown SIL	T, trace C	$\overline{\mathbb{CL}}$	AY, trace cmf SAND	(moist, soft)		1
1							PP=0.75,			•	` ' '		
								-					
2	2	2.0	4.0	SS/21	2-3-2-3		Similar as	above (mo	oist	, medium stiff)			5
				1				(		,			
3													
4	3	4.0	6.0	SS/12	1-1-1-2		Similar as	above (we	et s	soft)			2
'		1.0	3.0	55/12	1 1 1-2		Ziiiiiui us	( W	٠, ٥	,			
5	1												
6	4	6.0	8.0	SS/24	2-3-4-5		Brown SII	T trace (	CI /	AY (moist, medium s	tiff)		7
	~	0.0	0.0	55/24	2-3-4-3		אוט וויייטים	,, nace C	LLF	11 (moist, medium s	·····)		,
7													
,													
8	5	8.0	10.0	SS/24	5-5-4-5		Brown SII	T trace (	~I /	AY, trace fine GRAV	FI (mojet etiff	)	9
O		0.0	10.0	55/24	J-J- <del>1</del> -J		דופ וואסים	11, Hace C	LLF	11, Hace HHC GRAV	TT (moist, still)	,	)
9													
7													
10	1												
10													
11													
111													
12													
12													
13	_	13.5	15.0	SS/18	1-2-2		Gray CII T	trace CI	. , .	I (wat soft)			1
13	6	13.3	15.0	55/18	1-2-2		Grey SIL1	, trace CL	LA Y	Y (wet, soft)			4
1.4													
14													
1.5	4												
15													
17													
16													
17													
10	_	10.5	10.	00.10	4.100/2"		<u> </u>	DOCT:	. —			. — - —	100
18	7	18.5	19.2	SS/8	4-100/2"		-		-	s, fragments & flour	(wet)		100+
							Auger refu	sal at 19.2	2'				
19								- ·					4
							Bottom of	Boring at	19.	.2'			
20	I		I	I	I	I	1						1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod PP=Pocket Penetrameter Results in tsf

						1							-
					orporate Drive	SI	JBSURFA	ACE EX	PL	ORATION	Boring No.		233
		IV			racuse, NY 13057			BORI			Page No.		of 1
		ciates		1 mone:	315-701-0522		ILSI	DOM	10	LOG	Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			n Locati					~-		Surface Elev.		39.9'
				DS OF	INVESTIGATIO				Gŀ	ROUNDWATER	OBSERVAT	TONS	
Driller:		G. Rich			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H		T. T.	Casing Hammer:			0.4/2.6/22		Mail D. M.		,	, , ,
Inspect Drill Ri		A. Sna	rma, E.	1.1.	Other:	2" OD (	Salit Domal	04/26/23	Daf	While Drilling	7.8 8.4		3.5 5.5
Type:	g:	ATV	))		Soil Sampler: Hammer Wt:	2 OD s	Split Barrel	04/26/23		ore Casing Removed ter Casing Removed	3.4	1	out
Rod Siz	·e•	AWJ			Hammer Fall:	30 in.		04/26/23		ter Casing Removed	caved @ 4.8		out
Kou Siz			RORI	ING S	AMPLES	30 III.	VI			SSIFICATION C	)		Jut
		ı		110 57			V 1.	JUAL C	LAK		or wia i Ekia	\L	
Depth	G 1 .	Sample (F	e Depth	Type /	Blows on	Depth of		coarse		1 25 4. 50	0/ / 20 4. 25	0/	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			1% / some - 20 to 35 10% / trace - 0 to 10°		or RQD %
0	1A	0.0	0.5	SS/12	WH-1-2-3	(1 1.)	Topsoil and		Mat		.0707 trace 0 to 10	7.0	3
	1B	0.5	2.0							SAND, trace CLAY	(moist, soft)		1
1								,		,	, ,		
2	2	2.0	4.0	SS/20	5-5-5-5		Brown SIL	T, trace C	LA	Y (moist, stiff)			10
							PP=1.5, 0.	5, 1.8					
3													
4	3	4.0	6.0	SS/14	3-3-2-2		Similar as	above (we	t, m	edium stiff)			5
	_												
5													
	4	( 0	0.0	00/17	2224		D CII	т 1:441	c c	AND to a CLAY		WEI.	
6	4	6.0	8.0	SS/16	2-3-3-4		(moist, med			AND, trace CLAY	, trace mi GRA	VEL	6
7							(moist, me	ululli Silli	)				
,													
8	5	8.0	10.0	SS/16	3-2-3-2		Brown SIL	T. little C	LAY	(moist, medium st	tiff)		5
		0.0	10.0	55,10	3232		Brown SIL	, , , , , , , , , , , , , , , , , , ,		(moist, mediam st	)		
9													
							Augered ho	ard at 10'					
10							<u> </u>						
11													
12													
13		12.5	15.0	00/10	10.21.42		D 011	Tr 1	C C 4	ND to CD	ANTEL C 1	.A.	72
1.4	6	13.5	15.0	SS/18	19-31-42		Brown SIL	i and cm	ı SA	ND, trace fine GR	AVEL (wet, har	a)	73
14													
15	1						Auger refu	sal at 15	<u>, , , , , , , , , , , , , , , , , , , </u>				
1.5	7	15.5	17.0	SS/18	55-20-25					nents & flour (mois	<u> </u>		45
16	,	13.3	17.0	55/10	33-20-23		Giey Roe.	ix emps, i	ıagıı	icitis & flour (mois	.,		73
10													
17							Bottom of	Boring at	17.0	,			1
-,													
18													
19													
	]												
20		Ī	I	I	1	Ī	Ī						1

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP=Pocket Penetrameter Results in tsf

		N A		6035 C	orporate Drive	CI	IDCIIDE	ACE EX	DI	ORATION	Boring No.	B-	234
		IV			racuse, NY 13057	30					Page No.	1	of 1
	Asso	ociates	s, Inc.	Phone:	315-701-0522		IESI	BORI	NG	LUG	Report No.	28062B-0	01-0523-R1
Project	Name:	Micror	n Camp	us, Clay,	, New York						Date Started	04/2	26/23
Client:		Rambo	oll								Date Finished	04/2	26/23
Locatio	n:			n Locat							Surface Elev.		9.9'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	TONS	
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H		T T	Casing Hammer:						- ' '		
Inspect Drill Ri			rma, E.	1.1.	Other:	2" OD 6	N. 1'4 D 1	04/26/23	D.f	While Drilling	none noted		noted
Drili Ki Type:	g:	CME 5	))		Soil Sampler: Hammer Wt:	140 lbs.	Split Barrel	04/26/23		ore Casing Removed ter Casing Removed	4.6 3.8		8.6 out
Rod Siz	Α.	AWJ			Hammer Fall:	30 in.		04/26/23		er Casing Removed	caved @ 13.9		out
Kou Siz			RORI	ING S	AMPLES	30 m.	VI			SSIFICATION (	_		out
		ı		110 52							or white Euro	· ·	1
Depth Scale	Sample	Sample (F	e Depth	Type /	Blows on Sampler	Depth of		- coarse medium		and 35 to 50	0% / some - 20 to 35	0/2	SPT "N" or
(Feet)	No.	From	То	Sample Rec. (in.)	Per 6 Inches	Change (Ft.)		- fine			20% / trace - 0 to 10°		RQD %
0	1A	0.0	0.5	SS/12			Topsoil an		Mat				3
	1B	0.0	2.0				Brown SIL	T, trace f	ine S	AND, trace CLAY	, trace ORGAN	IC	
1							Materials (	moist, sof	t)				
2	2	2.0	4.0	SS/24	3-3-3-4		Brown SIL	T, trace C	CLA	Y (moist, medium s	tiff)		6
2													
3													
4	3	4.0	6.0	SS/16	3-2-3-2		Brown SII	T little m	ıf GI	RAVEL, trace CLA	V trace ROOT	Haire	5
_	3	4.0	0.0	33/10	3-2-3-2		(wet, medi		CA VEL, Hace CLA	11, trace ROO1	114115	3	
5							(wet, mear	am sam)					
6	4	6.0	8.0	SS/24	5-5-5-4		Brown SIL	T, trace C	LA	Y (moist, stiff)			10
7													
0	_	0.0	10.0	00/04	2 2 2 5		G 1	( )	1	1. 4.00			
8	5	8.0	10.0	SS/24	3-3-3-5		Same as ab	ove (wet,	med	lium stiff)			6
9													
10	1												
11													
12													
12													
13	6	13.5	15.0	SS/18	3-3-3-3		Same as ab	nove (wet	med	lium stiff)			6
14		13.3	15.0	20/10	3-3-3-3		Same as at	ove (wel,	11100	114111 51111 <i>)</i>			0
17													
15	1												
16													
17													
10													
18	7	18.5	19.8	SS/14	11-9-100/4"	<u> </u>	Grov CII T	some ref	CD	AVEL, with ROCK	fragments of fl		100+
19	_ ′	10.3	17.8	SS/14	11-7-100/4		(wet, hard)		UK	A VEL, WILLI KUCK	L magnients & H	oui	100+
1)							(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•					
20	1			l		1	1						1 1

				6035 C	orporate Drive	SI	IBSURFA	ACE EX	PL	ORATION	Boring No.	B-	235
		IV	Ę		racuse, NY 13057			BORI			Page No.	1	of 2
		ciates			315-701-0522		ILSI	DOKI	10	LOG	Report No.		1-0523-R1
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			n Locati					~-		Surface Elev.		0.4'
				DS OF	INVESTIGATIO				Gk	ROUNDWATER	OBSERVAT	TONS	
Driller: Driller:		G. Rich			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			ага rma, Е.	IТ	Other:			04/26/23		While Drilling	10.3	1	3.5
Drill Ri		CME 5		1.1.	Soil Sampler:	2" OD S	Split Barrel	04/26/23	Refe	ore Casing Removed	16.6		0.9
Type:	s•	ATV	,5		Hammer Wt:	140 lbs.	-	04/26/23		er Casing Removed	5.1	-	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		04/26/23		er Casing Removed	caved @ 7.0		out
		G OF	BOR	ING SA	AMPLES		VIS			SSIFICATION C	)	L	
Depth			e Depth		Blows on		C -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		little - 10 to 2	0% / trace - 0 to 10°		RQD %
0	1A	0.0	0.5	SS/14	1-3-5-6		Topsoil and						8
	1B	0.5	2.0				Brown SIL	T, trace C	LAY	Y, trace fine SAND	(moist, stiff)		
1													
		2.0	4.0	SS/15	4-4-4-3		G!!1	-1 (	4 -4:	£C)			8
2	2	2.0	4.0	33/13	4-4-4-3		Similar as	above (we	ı, sıı	11)			8
3													
4	3	4.0	6.0	SS/24	2-2-2-2		Grey/Brow	n SILT, tı	ace	cmf SAND, trace f	ine GRAVEL, t	race	4
						Grey/Brown SILT, trace cmf SAND, trace fine GRAVEL, trace CLAY (wet, medium stiff)							
5	1						,						
6	4	6.0	8.0	SS/20	2-3-3-3		Brown SIL	T, trace fi	ne G	GRAVEL, trace CL	AY (wet, mediu	ım stiff)	6
7													
7													
8	5	8.0	10.0	SS/24	3-2-3-3		Brown SIL	T. trace c	mf S	AND, trace CLAY	(wet, medium s	stiff)	5
		0.0	10.0				210 512	1, 111100			(,	,,,,,	
9													
10													
11													
12													
13													
13	6	13.5	15.0	SS/15	6-21-42		Brown cmf	SAND a	nd m	of GRAVEL, trace	SILT (wet. verv		63
14		-0.0	-2.0	-2.15	]		compact)	u	111	,,,	(		
15													
16													
17													
18													
	7	18.5	20.0	SS/11	3-3-3		Grey/Brow	n cmf SA	ND a	and mf GRAVEL,	trace SILT (wet	, loose)	6
19													
20	-												

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-235

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

					315-701-0522		TEST DOMING		Report No. 280	062B-01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLASS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20	8	20.9		SS/1	100/1"	(Ft.)	Auger refusal at 20.7' Grey ROCK chips & flour		20% / trace - 0 to 10%	100+
21							Bottom of Boring at 21'			
22										
23										
24										
25										
26 27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
45	-									
		1				1				

		M			orporate Drive	SU	JBSURFA	ACE EX	KPL	ORATION	Boring No.		236
			100	•	racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 2
	2,2,5,2,2,3	ciates	15 100 100	I mone.	315-701-0522		1201				Report No.		1-0523-R1
Project	Name:			us, Clay,	, New York						Date Started		26/23
Client:		Rambo									Date Finished		26/23
Locatio	n:			n Locati		<b>N</b> T	1		~		Surface Elev.		94'
				DS OF	INVESTIGATIO				G	ROUNDWATER	OBSERVAT	IONS	
Driller:		G. Ricl			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto				ıт	Casing Hammer: Other:			04/26/23		White Delline	5.5	-	3.0
Drill Ri		A. Sha		1.1.		2" OD S	Inlit Downal	04/26/23	Dof	While Drilling Fore Casing Removed	9.3		3.4
Type:	g:	ATV	)3		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	04/26/23		ter Casing Removed	4.2		out
Rod Siz	۵•	AWJ			Hammer Fall:	30 in.		04/26/23		ter Casing Removed	caved @ 6.3		out
Rou Siz			D∩DI	INC S	AMPLES	30 III.	VI			SSIFICATION (	)		rut
	LO			ING SE	AMILLES		V 18	SUAL C.	LA	SSIFICATION (	JE WIATEKIA	LL .	1
Depth			Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale (Feet)	Sample No.	(F From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			0% / some - 20 to 35 20% / trace - 0 to 10°		or POD %
0	1A	0.0	0.5	SS/16		(Ft.)	Topsoil and		Mat		10767 trace - 0 to 10	/0	RQD %
U	1B	0.5	2.0	55/10	W11-1-2- <del>4</del>					SAND, trace CLAY	(moist soft)		
1	110	0.5	2.0				Diown SiL	i, trace i	iiic c	mind, trace CLMT	(moist, sort)		
1													
2	2	2.0	4.0	SS/18	5-5-4-4		Brown SIL	T. trace C	LA	Y (wet, stiff)			9
_	_	2.0		22,10			Brown SIL	1, 111100		1 ()			
3													
4	3	4.0	6.0	SS/15	2-4-4-5		Brown SIL	T and cm	f SA	ND, little fine GRA	AVEL (wet, stiff		8
										•	` .		
5													
6	4A	6.0	7.0	SS/18	9-12-69-12		Brown SIL	T, trace c	mf S	SAND, trace fine G	RAVEL (moist,	hard)	81
7	4B	7.0	8.0				Grey mf G	RAVEL a	ınd c	emf SAND, trace SI	LT (wet)		
8	5	8.0	10.0	SS/18	18-27-20-21			ish mf GF	RAV	EL and cmf SAND	, trace SILT (we	et,	47
							compact)						
9							, ,,	1 10	0.				
10							Augered ho	ard at 10.0	O'				
10													
11													
11													
12													
12													
13													
1.5	6	13.5	15.0	SS/14	16-10-12		Brown cmf	SAND a	nd n	nf GRAVEL, little S	SILT (wet. medi	um	22
14	U	13.5	13.0	55,11	10 10 12		compact)	DI II (D u	114 11	in Grant EE, male	31E1 (e., mea.	uiii	
] -					1		T						
15													
16					1								
					1								
17					1								
					1								
18													
	7	18.5	20.0	SS/-	8-14-18		Grey cmf S	SAND, litt	tle fi	ine GRAVEL, trace	SILT (wet, con	npact)	32
19					1								
					1								

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-236** Page No. 2 of 2 Report No. 28062B-01-0523-R1

**LOG OF BORING SAMPLES** VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Depth of Type / (Ft.) m - medium Scale Sample Sampler and - 35 to 50% / some - 20 to 35% Sample Change or (Feet) No. From To Rec. (in.) Per 6 Inches (Ft.) f - fine little - 10 to 20% / trace - 0 to 10% RQD % 20 21 22 Auger refusal at 23.3' 23 8 23.4 23.5 100/1" Grey ROCK fragments & flour (wet) 100+ Bottom of Boring at 23.5' 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

				6035 C	orporate Drive	SI	IBSURF	ACE EX	PI (	ORATION	<b>Boring No.</b>	В-	239
		IV	Ę	•	racuse, NY 13057			S BORI			Page No.		of 2
		ociates			315-701-0522		1631	DUKI	.10	LUG	Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		26/23
Client:		Rambo		_							Date Finished		26/23
Locatio	n:			n Locati		NT			Cr	OHNDW APP	Surface Elev.		93'
D!!!				DS OF	INVESTIGATIO		II C A		GR	COUNDWATER	OBSERVAT	IUNS	
Driller: Driller:		G. Rich			Casing: Casing Hammer:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspect			ara rma, E.	LT.	Other:			04/26/23		While Drilling	none noted	1:	8.5
Drill Ri		CME 5			Soil Sampler:	2" OD S	Split Barrel	04/26/23		ore Casing Removed	4.5		3.5
Type:	8.	ATV			Hammer Wt:	140 lbs.		04/26/23		er Casing Removed	3.6		out
Rod Siz	æ:	AWJ			Hammer Fall:	30 in.		04/26/23		er Casing Removed	caved @ 3.9	C	out
	LO	G OF	BOR	ING SA	AMPLES		VI	SUAL C	LAS	SIFICATION C	F MATERIA	L	
Depth		Sample	Depth	Tyma /	Blows on	Depth of	c -	- coarse					SPT "N"
Scale	Sample	(F	t.)	Type / Sample	Sampler	Change	m -	medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	17		0% / trace - 0 to 10°	%	RQD %
0	1A	0.0	0.5	SS/16	WH-1-1-3		Topsoil and				(		2
1	1B	0.5	2.0				Brown SIL	1, trace f	ine S	AND, trace CLAY	(moist, soft)		
1													
2	2	2.0	4.0	SS/22	4-4-4		Same as ab	ove (wet.	med	ium stiff)			8
	_			<b></b>		Same as above (wet, medium stiff)							
3													
4	3	4.0	6.0	SS/24	2-3-2-2	Brown SILT, trace CLAY (wet, medium stiff)						5	
	4					Brown SILT, trace CLAY (wet, medium stiff)							
5													
	4	( 0	0.0	SS/24	2 2 2 2		C 1-	(4		·			4
6	4	6.0	8.0	55/24	2-2-2-3		Same as ab	ove (wet,	mea	ium stiff)			4
7													
<b>'</b>													
8	5	8.0	10.0	SS/21	2-2-5-13		Brown SIL	T, trace c	mf S	AND, trace cmf Gl	RAVEL, trace C	CLAY	7
							(moist, me	dium stiff	)				
9													
10	4												
10													
11													
11													
12													
13													
	6	13.5	15.0	SS/6	11-11-8					nd ROCK flour, litt	le SILT, trace n	nf	19
14							GRAVEL	(moist, m	ediun	n compact)			
1.5	4												
15													
16													
10													
17													
18													
	7	18.5	20.0	SS/5	3-6-9		Grey SILT	and cmf	SANI	D, little mf GRAV	EL (wet, stiff)		15
19													
			Ī	I	I	i	1						

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-239

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

					15-701-0522		TEST DOMING		Report No. 28062	2B-01-0523-R1
	LO	G OF	BOR	ING SA	MPLES		VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20 21										
22							Augered hard at 23.4' and	refused at 23.5'		
23	8	23.5	23.5	SS/0	100/0"		Grey ROCK fragments at Bottom of Boring at 23.5'	tip of spoon		100+
24							Bottom of Boring at 23.5'			
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	PL	ORATION	Boring No.		240
	Assr	rciates	, Inc.		racuse, NY 13057 315-701-0522		TEST	BORI	NG	LOG	Page No.		of 2
				1 mome.							Report No.		01-0523-R1
Project Client:	Name:	Rambo		us, Ciay,	, New York						Date Started Date Finished		27/23 27/23
Location				n Locati	ian Dian						Surface Elev.		01.4'
Locatio	и.				'INVESTIGATIO	N			CI	ROUNDWATER			/1.4
Driller:		G. Ricl		DS OF	Casing:	3 ¼" ID	HSA		GI				
Driller:		C. O'H			Casing Hammer:	5 /4 IB	11.5.71.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto	or:	A. Sha	rma, E.	I.T.	Other:			04/27/23		While Drilling	10.8	1	8.5
Drill Ri	g:	CME 5	55		Soil Sampler:	2" OD S	Split Barrel	04/27/23	Bef	ore Casing Removed	5.1	2	3.5
Type:		ATV			Hammer Wt:	140 lbs.		04/27/23	Aft	ter Casing Removed	3.8	(	out
Rod Siz		AWJ			Hammer Fall:	30 in.		04/27/23		ter Casing Removed	caved @ 4.1		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SSIFICATION (	OF MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change	m -	medium			0% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°	%	RQD %
0	1A	0.0	0.5	SS/17	WH-2-3-5		Topsoil and				7.( - 1.	4:00	5
1	1B	0.5	2.0				Brown SIL	1, trace fi	ine S	SAND, trace CLAY	(moist, mediun	n stiff)	
1													
2	2	2.0	4.0	SS/15	4-4-4-3		Brown SII	T trace C	'LA'	Y (wet, stiff)			8
-	_	2.0	1.0	55, 15			Brown SIL	1, 11400		(,, et, still)			
3													
4	3	4.0	6.0	SS/23	2-3-3-3		Similar as	above (we	t, m	edium stiff)			6
5													
	4	6.0	0.0	00/04	2 2 2 2		G: '1	1 (		1' .'.00			_
6	4	6.0	8.0	SS/24	3-3-2-3		Similar as	above (we	et, m	edium stiff)			5
7													
,													
8	5	8.0	10.0	SS/24	WH-2-3-3		Brown SIL	T, trace fi	ine S	SAND, trace CLAY	(wet, medium s	stiff)	5
								Í		•		,	
9													
10													
1.1													
11													
12													
12													
13													
	6	13.5	15.0	SS/14	8-8-10		Brown SIL	T, some c	mf S	SAND, little mf GF	RAVEL (moist, v	ery	18
14							stiff)						
15							Augered ho	ard at 16.9	9' (p	ossible cobbles)			
17													
16													
17													
1 '													
18													
	7	18.5	20.0	SS/13	4-3-7		Grey cmf S	SAND and	l mf	GRAVEL, some S	ILT (wet, mediu	ım	10
19							compact)						

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-240** Page No. 2 of 2 Report No. 28062B-01-0523-R1

**LOG OF BORING SAMPLES** VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Depth of Type / (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or (Feet) No. From To Rec. (in.) Per 6 Inches (Ft.) f - fine little - 10 to 20% / trace - 0 to 10% RQD % 20 21 22 23 8 23.5 24.8 SS/1444-63-100/4" Grey cmf SAND and mf GRAVEL, trace SILT, trace ROCK 100+ 24 fragments & flour (moist, very compact) Bottom of Boring at 24.8' 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	PL	ORATION	Boring No.		241
	Acer	ciates	Inc	-	racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 2
				1 mone.	315-701-0522						Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		27/23
Client:		Rambo		<u> </u>							Date Finished		27/23
Locatio	n:			n Locati		<b>.</b> T.			O.I.		Surface Elev.		3.5'
				DS OF	INVESTIGATIO		TT G .	1	Gi	ROUNDWATER	OBSERVAI	IONS	
Driller:		G. Rich			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H		тт	Casing Hammer:			04/27/23		M1.1 D.11.	( 0	1	2.5
Inspecto		A. Sha		1.1.	Other:	211 OD 6	71'4 D1	04/27/23	D.f	While Drilling	6.8		3.5
Drill Ri	g:	CME 5	13		Soil Sampler: Hammer Wt:	140 lbs.	Split Barrel	04/27/23		ore Casing Removed ter Casing Removed	13.0 3.9		5.5
Type: Rod Siz		AWJ			Hammer Fall:	30 in.		04/27/23		ter Casing Removed	caved @ 5.1		out
Kou Siz			DADI	INC C	AMPLES	30 III.	3716			SSIFICATION (	)		out
	LU			ING SA	AMPLES	<u> </u>	VIX	SUAL C	LAS	SSIFICATION C	JF MIATERIA	<b>L</b>	
Depth			Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample	(F		Sample	Sampler	Change		medium			0% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine	3.6.		20% / trace - 0 to 10°	%	RQD %
0	1A	0.0	0.5	SS/22	1-1-1-5		Topsoil and				<del></del>		2
1	1B	0.5	2.0				Brown SIL	, I, little II	ne S	AND, trace CLAY	(moist, soit)		
1													
,	_	2.0	4.0	SS/13	5-4-4-4		Dansvar CII	T +	f C	AND twee fine C	DANEL two co	T A 37	8
2	2	2.0	4.0	35/13	3-4-4-4		(moist, med			SAND, trace fine G	KAVEL, trace C	LAY	8
3							(moist, med	aium stun	.)				
3													
4	3	4.0	6.0	SS/18	WH-WH-WH-1		Deoxym CII	Tandam	f C A	ND trace mf CD A	VEL (wat warm	coft)	0
4	3	4.0	0.0	35/18	W II-W II-W II-I		Brown SIL	and cm	I SA	ND, trace mf GRA	vel (wei, very	son)	U
5	ł												
3													
6	4	6.0	8.0	SS/20	6-15-9-9		Drawn and	FCAND 6		mf GRAVEL, littl	o SILT (wat me	dium	24
0	4	0.0	8.0	33/20	0-13-9-9		compact)	SAND, S	onne	illi OKAVEL, illi	e SIL1 (wet, ille	arum	24
7							compact)						
,													
8	5	8.0	10.0	SS/15	28-19-19-36		Brown emf	f SAND a	nd m	of GRAVEL, trace	SII T (moist co	mnact)	38
0	3	0.0	10.0	55/15	20-17-17-30		Diowii ciiii	i band a	114 11	ii GRAVEL, iiacc	SILI (IIIOISI, COI	inpact)	36
9													
10	1												
10													
11													
12													
13													
	6	13.5	15.0	SS/17	12-10-13		Similar as a	above (we	t, m	edium compact)			23
14								`		• /			
15	]												
16													
17													
18													
	7	18.5	20.0	SS/-	48-73-53					EL and cmf SAND	, trace SILT, tra	ce	126
19							ROCK frag	gments (w	et, v	ery compact)			

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-241** Page No. 2 of 2 Report No. 28062B-01-0523-R1

					315-701-0522		TEST BORE (G)		<b>Report No.</b> 28062B-0	01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20 21										
22										
23	8	23.5	25.5	SS/13	WH-1-19-38		Grey cmf SAND and mf (	GRAVEL (wet, mo	edium compact)	20
24								,	1 /	
25	9	25.5	26.7	SS/14	53-84-100/2"		Grey cmf SAND and mf (	GRAVEL, trace R	OCK fragments & flour	100+
26							(wet, very compact)  Auger refusal at 26.7'			
27							Bottom of Boring at 26.7'			
28										
29										
30										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	E		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No.		299A	
	Acc	ciates	Inc		racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 2	
	2010000			1 momen	315-701-0522		1201				Report No.		01-0523-R1	
Project	Name:			us, Clay,	New York						Date Started		04/23	
Client:		Rambo									Date Finished		04/23	
Locatio	n:			n Locati		. T. T	1		CI.		Surface Elev.		37.7'	
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS		
Driller:		G. Rich			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)	
Driller:		C. O'H		a11	Casing Hammer: Other:			05/04/23	WI-11 - D.:111		1	2.0		
Inspecto Drill Ri		CME 5	cDough	an		2" OD 6	Inlit Donnal	05/04/23		While Drilling ore Casing Removed	none noted 7.3		2.3	
Type:	g:	ATV	))		Soil Sampler: Hammer Wt:	2 OD S	Split Barrel	none noted						
Rod Siz	Α•	AWJ			Hammer Fall:	30 in.		none noted	,	out				
Kou Siz			DAD	INC S	AMPLES	30 in. 05/05/23 After Casing Removed VISUAL CLASSIFICATION OF MATERIAL								
	LO	1		ING SA	AMILLES	-								
Depth		_	e Depth	Type /	Blows on	Depth of		coarse				0.7	SPT "N"	
Scale (Feet)	Sample	(F From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change		medium - fine			1% / some - 20 to 35 20% / trace - 0 to 10°		or ROD %	
0	No.	0.0	0.5	SS/18		(Ft.)	Topsoil and		Matt		.0707 Hace - 0 to 10°	/ <b>U</b>	RQD %	
	1B	0.5	2.0	55/10	W11-1-2-3					AND, trace CLAY	(moist medium	stiff)		
1	10	0.5	2.0				DIOMII OIL	1, 50IIIC I	m or	IIID, HACC CLAI	(moist, medium	51111)		
2	2	2.0	4.0	SS/24	2-3-2-2		Brown SIL	T. some C	CLAY	Y, trace fine SAND	(wet, medium	stiff)	5	
										ined from 3 to 5 fee		)		
3							borehole a							
							LL=28 P1			<b>6</b>				
4	3	4.0	6.0	SS/24	2-3-3-4					AND (wet, mediun	n stiff)		6	
										,	,			
5	1													
6	4	6.0	8.0	SS/24	3-4-4-5		Brown SIL	T, trace c	mf S	AND (wet, mediun	n stiff)		8	
7														
8	5	8.0	10.0	SS/16	4-8-9-5		Brown SIL	T, trace c	mf S	AND, trace CLAY	(wet, very stiff)	)	17	
_														
9														
10		10.0	12.0	GG /2.4	2 4 2 2		D /G	CII T		CCAND				
10	6	10.0	12.0	SS/24	3-4-2-3			y SIL1, ti	race 1	mf SAND, trace Cl	LAY (wet, medi	um	6	
1.1							stiff)							
11														
12	7	12.0	14.0	SS/24	WH-2-1-2		Grey CII T	some CI	ΔV	trace fine SAND (	wet soft)		3	
12	_ ′	12.0	14.0	33/24	vv11-∠-1-∠		LL=20 P1			uace mie SAND (	wei, 8011)		3	
13							20 11 مت	J 1V1C-2	_ / / U					
13														
14	8	14.0	16.0	SS/24	1-1-1-5		Grev CLA	Y and SII	T. tr	ace fine SAND (we	et, soft)		2	
•	ľ		10.0	=====================================						empted from 14 to1			~	
15	1									et offset - No Recov				
							LL=30 P1							
16	9	16.0	18.0	SS/7	7-8-5-6					ILT, trace fine GR	AVEL (wet, me	dium	13	
							compact)	,		,	, , , , , ,			
17														
18														
	10	18.5	20.0	SS/10	WH-2-2		Grey mf S	AND, trac	e SII	LT, trace fine GRA	VEL, trace CLA	ΑY	4	
19							(wet, medi							
• •				1	Ĭ.	1	1							

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

Boring No. B-299A
Page No. 2 of 2
Report No. 28062B-01-0523-R1

	Associates, Inc. Phone: 315-701-0522 LOG OF BORING SAMPLES						Report No. 28062B-01							
	LO	G OF	BOR	ING SA	AMPLES	VISUAL CLASSIFICATION OF MATERIAL								
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %				
20							Augered hard at 21.5'			_				
22 23	11	22.3	22.3	SS/1	100/0"		Grey ROCK fragments (we	et)		100+				
24							Bottom of Boring at 22.3'							
25 26														
27														
28 29														
30														
31														
33														
34														
36														
37														
39														
40														
42														
43														
45														

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	KPL	ORATION	Boring No.		305 of 2
	Acc	ciates	Inc	•	racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		
				I moner.	315-701-0522						Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		04/23
Client:		Rambo			~-						Date Finished		04/23
Locatio	n:			on Locati		3.7	1		~		Surface Elev.		38.1'
				DS OF	INVESTIGATIO				Gl	ROUNDWATER	OBSERVAT	TONS	
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	g At (Ft.)
Driller:		C. O'H			Casing Hammer:						- ' '		
Inspect		D. Mac	_	all	Other:			05/04/23		While Drilling	none noted		8.5
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	05/04/23		ore Casing Removed	4.9		3.5
Type:		ATV			Hammer Wt:	140 lbs.		05/04/23		ter Casing Removed ter Casing Removed	none noted	(	out
Rod Siz		AWJ			Hammer Fall:	30 in.							
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SSIFICATION O	OF MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/12	WH-WH-2-3	<u></u>	Topsoil and						2
	1B	0.5	2.0				Brown SIL	T, trace n	nf S	AND, trace CLAY	(moist, soft)		
1							PP = 1.75,	2.5, 2.5					
2	2	2.0	4.0	SS/21	4-5-4-5		Brown SIL	T, trace C	CLA	Y, trace mf SAND	(moist, stiff)		9
3													
4	3A	4.0	5.0	SS/24	4-6-6-7		Brown SIL	T, some r	nf S.	AND, trace CLAY	(wet, stiff)		12
5	3B	5.0	6.0				Brown SIL	T, little m	nf S <i>A</i>	AND, trace CLAY (	wet, stiff)		
6	4	6.0	8.0	SS/20	4-5-4-6		Brown SIL	T, trace n	nf S	AND (wet, stiff)			9
7													
8	5	8.0	10.0	SS/18	4-5-6-5		Brown SIL	T, little c	mf S	AND, trace CLAY	(wet, stiff)		11
9													
10	6	10.0	12.0	SS/22	5-4-4-4		Grey SILT	, trace CL	LΑΥ	(wet, stiff)			8
11													
12	7	12.0	14.0	SS/20	1-4-7-5		Grey SILT	, trace fin	e GF	RAVEL, trace cmf S	SAND (moist, st	iff)	11
13													
14													
15													
16													
17													
18									_		_		
	8	18.5	20.0	SS/18	WH-2-11				of SA	ND, trace CLAY,	trace fine GRAV	/EL	13
19							(wet, moist	:)					

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
PP=Pocket Penetrameter Results in tsf

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-305

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

					315-701-0522	Report No. 28062B-01-03						
	LO	G OF	BORI	ING SA	AMPLES		VISUAL CLAS	SIFICATION C	OF MATERIAL	L		
Depth Scale (Feet)	Sample No.	Sample (F From	Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%			
20							-					
21												
22												
23	9	23.5	24.8	SS/15	8-29-100/3"		Grey ROCK fragments, tra	ace SILT(wet)				
24							Bottom of Boring at 24.8'					
25												
26 27												
28												
29												
30												
31												
32												
33												
34												
35 36												
37												
38												
39												
40												
41												
42												
43												
44												
45												

						I				I	D . 37	_	117
					orporate Drive	SU	J <b>BSURF</b> A	ACE EX	PL	ORATION	Boring No.		317
	Acc	ciates	Inc		racuse, NY 13057		TEST	BORI	NG ]	LOG	Page No.		of 1
					315-701-0522						Report No.		1-0523-R1
Project Client:	Name:	Rambo		us, Clay,	New York						Date Started Date Finished		27/23
Location	n•			n Locati	on Plan						Surface Elev.		2.9'
Location	11.				INVESTIGATIO	N			GR	ROUNDWATER			2.9
Driller:		G. Ricl		0.01	Casing:	3 ¼" ID	H.S.A.	_					
Driller:		C. O'H			Casing Hammer:			Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto		A. Sha	rma, E.	I.T.	Other:			04/27/23		While Drilling	none noted	4	.0
Drill Ri	g:	CME 5	55		Soil Sampler:	2" OD S	Split Barrel	04/27/23		ore Casing Removed	2.9	1	1.6
Type:		ATV			Hammer Wt:	140 lbs.		04/27/23		er Casing Removed	3.3	C	ut
Rod Siz		AWJ	DOD!	Dia a	Hammer Fall:	30 in.	7.77	04/27/23		er Casing Removed	caved @ 7.6		ut
	LO			ING SA	MPLES		VIS	SUAL C	LAS	SIFICATION C	OF MATERIA	L	
Depth			Depth	Type /	Blows on	Depth of		coarse					SPT "N"
Scale	Sample	(F From		Sample	Sampler	Change		medium - fine			% / some - 20 to 35° 0% / trace - 0 to 10°		or DOD 0/
(Feet)	No.	0.0	To 0.5	Rec. (in.) SS/18	Per 6 Inches WH-1-2-3	(Ft.)	Topsoil and		Matt		0% / trace - 0 to 10%	/0	RQD %
· ·	1B	0.5	2.0	55/10	WII 1 2 3					(moist, soft)			3
1	12	0.0	2.0				210 512			(meiss, sers)			
2	2	2.0	4.0	SS/19	3-4-4-3		Similar as	above (we	t, sti	ff)			8
3													
		4.0		~ ~ / <b>^</b> /			a: ::			11			
4	3	4.0	6.0	SS/24	3-4-3-2		Similar as	above (we	et, me	edium stiff)			7
5													
5													
6	4	6.0	8.0	SS/23	2-2-1-2		Brown SII	T trace f	ine S	AND, trace CLAY	(wet_soft)		3
Ü	· ·	0.0	0.0	56/25	2212		Brown Sil	1, 11400 1		in D, made CEIII	(1101, 5011)		
7													
8	5	8.0	10.0	SS/22	2-1-1-6		-		some	cmf SAND, trace	mf GRAVEL, tr	race	2
							CLAY, (we	et, soft)					
9													
10													
10													
11							Auger refu	sal at 11.0	<u>5'</u>				
	6	11.6	11.7	SS/1	100/1"					ents & flour (wet)			100+
12							Bottom of						
13													
1.4													
14													
15													
13													
16													
17													
18													
10													
19													
20													

						I					D . M	ъ	222
		M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	<b>YPL</b>	ORATION	Boring No.		333
	1		lue		racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 1
					315-701-0522		1201		., .		Report No.		1-0523-R1
Project	Name:			us, Clay,	New York						Date Started		02/23
Client:		Rambo									Date Finished		02/23
Locatio	n:		•	n Locati		<b>.</b> T			<b>CI</b>		Surface Elev.		4.9'
				DS OF	INVESTIGATIO				GR	ROUNDWATER	OBSERVAT	IONS	
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H	ara		Casing Hammer:			05/02/22		Mi .1 D .11.			
Inspecto Drill Ri		CME 5			Other:	2" OD 6	Sulit Damal	05/02/23		While Drilling ore Casing Removed	13.8		8.5 8.5
Type:	g:	ATV	))		Soil Sampler: Hammer Wt:	2 OD 8	Split Barrel	05/02/23		er Casing Removed	none noted		out
Rod Siz	۵.	AWJ			Hammer Fall:	30 in.		05/02/23		er Casing Removed	none noted		out
Kou Siz			ROR1	NC S/	AMPLES	30 III.	VI			SIFICATION C	E MATERIA	T	
		T T		110 57					LAB		T WATERIA	L	
Depth	a 1		e Depth t.)	Type /	Blows on	Depth of		coarse		1 25 . 50	0// 20: 25	0./	SPT "N"
Scale (Feet)	Sample No.	From	To	Sample Rec. (in.)	Sampler Per 6 Inches	Change (Ft.)		medium - fine			% / some - 20 to 35 0% / trace - 0 to 109		or RQD %
0	1A	0.0	0.5	SS/10	WH-WH-1-4	(111.)	Topsoil and		Mat		.0707 trace - 0 to 10.	/0	1 1
	1B	0.5	2.0	55/10	W11-W11-1-4					ND, trace ROOTS	(moist_very so	ft)	1 1
1	115	0.5	2.0				DIOWII SIL	i, trace ii	III 57	ind, trace Roots	(moist, very so	11)	
2	2	2.0	4.0	SS/14	4-5-4-4		Similar soi	l as above	e (mo	ist, stiff)			9
_	_			00/11					(1110	104, 04111)			
3													
4	3	4.0	6.0	SS/8	2-2-2-2		Brown SIL	T, trace n	nf SA	ND (wet, medium	stiff)		4
								,		,	,		
5	1												
6	4	6.0	8.0	SS/17	1-1-5-3		Brown SIL	T, little m	ıf SA	ND, trace mf GRA	VEL (wet, med	ium	6
							stiff)						
7													
						<u>  </u>	<b>_</b>						
8	5	8.0	10.0	SS/19	2-12-34-23		Brown cm	f SAND, s	some	mf GRAVEL, little	e SILT (wet, co	mpact)	46
9													
- 10													
10													
1.1													
11													
12													
12													
13	6A	13.5	15.0	SS/14	11-21-36		Dork Grov	/Drown Cl	пта	and cmf SAND, trad	oo mf GD A VEI	traco	57
13	UA	13.3	15.0	33/14	11-21-30		CLAY (we		LLI	ma ciii sand, ifa	CO IIII OKAVEL	, uace	31
14	6B	18.5	20.0						tle SI	LT, trace fine GRA	VEL (wet ver	J	
'-	ران	10.5	20.0				compact)	, 11 1D, 11U	51	Li, date file OK	TTEL (WCL, VCL)	7	
15								ough COI	RRI.F	E from 15.9' to 16.4	,		
1.5								ingh COI	عرب د				
16													
17													
18													
	7	18.5	20.0	SS/18	7-24-41		Grey cmf S	SAND, tra	ice fi	ne GRAVEL (wet,	very compact)		65
19								*		,	/		
20	1		I				D 44 C	D ' '	20.01				1

20 Bottom of Boring at 20.0'
SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod
Remarks:

	C	V	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	KPL	ORATION	Boring No.		334 of 2	
	Acer	ciate	Inc	-	racuse, NY 13057		TEST	BORI	NG	LOG	Page No.			
					315-701-0522						Report No.		1-0523-R1	
Project	Name:			us, Clay,	New York						Date Started		02/23	
Client:		Rambo									Date Finished		02/23	
Locatio	n:			n Locati				Ī	~-		Surface Elev.		7.8'	
				DS OF	INVESTIGATIO				Gŀ	ROUNDWATER	OBSERVAT	TONS		
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)	
Driller:		C. O'H	ara		Casing Hammer:						- 7 (- 11)		()	
Inspect					Other:			05/02/23	While Drilling					
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	05/02/23		ore Casing Removed	1.0		3.5	
Type:		ATV			Hammer Wt:	140 lbs.		05/02/23		er Casing Removed	none noted	C	ut	
Rod Siz		AWJ			Hammer Fall:	30 in.		05/02/23		er Casing Removed				
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	F MATERIA	L				
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"		
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 35	%	or	
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			0% / trace - 0 to 10°	<b>%</b>	RQD %	
0	1A	0.0	0.5	SS/15	WH-WH-3-3		Topsoil and	d Organic	Mat	ter (moist)			3	
	1B	0.5	2.0			Brown SILT, trace mf SAND (moist, soft)								
1														
2	2	2.0	4.0	SS/21	3-4-4-5		Similar as	above (mo	oist, s	stiff)			8	
3														
4	3	4.0	6.0	SS/13	3-2-2-4		Similar as	above (we	et, me	edium stiff)			4	
5														
6	4	6.0	8.0	SS/24	2-3-3-3		Similar as	above (we	et, me	edium stiff)			6	
7														
8	5	8.0	10.0	SS/24	1-2-1-3		Similar as	above (we	et, so	ft)			3	
9														
10														
11														
12														
13						<u> </u>	<b>1</b>							
	6	13.5	15.0	SS/18	14-18-19		Brown SIL	T, some	nf SA	AND, trace mf GRA	AVEL (wet, hard	d)	37	
14														
15														
16														
17														
18														
	7	18.5	20.0	SS/12	26-43-69			SILT, litt	le cn	nf GRAVEL, trace	cmf SAND (mo	ist,	112	
19							hard)							
	]													
20	Ī	Ī		Ī		i	1							

6035 Corporate Drive East Syracuse, NY 13057

### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-334** Page No. 2 of 2 Report No. 28062B-01-0523-R1

					315-701-0522		ILSI DOME (GI		Report No. 28062	B-01-0523-R1
	LO	G OF	BOR	ING SA	MPLES		VISUAL CLASS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50 little - 10 to 2	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
21										
22										
23	8	22.5	24.3	SS/10	41-100/2"		Similar as above (moist, h	ard)		100+
24	0	23.3	24.3	33/10	41-100/2		Bottom of Boring at 24.3'	aru)		100
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	(PLORATIO	ON	Boring No. Page No.		336 of 2
	Acer	ciates	Inc		racuse, NY 13057		TEST	BORI	NG LOG		)		
					315-701-0522						Report No.		01-0523-R1
Project N				us, Clay,	New York						Date Started		02/23
Client:		Rambo									Date Finished	05/	02/23
Location	:	See Ex	ploratio	n Locati	on Plan						Surface Elev.	40	)3.9'
		ME	THO	DS OF	INVESTIGATIO	N			GROUNDW	VATER	R OBSERVAT	TONS	
Driller:		G. Ricl	hards		Casing:	3 ¼" ID	H.S.A.	ъ.	m		D (1.050)	α.	A ( (T) )
Driller:		C. O'H	ara		Casing Hammer:			Date	Time		Depth (Ft.)	Casing	g At (Ft.)
Inspector	r:				Other:			05/02/23	While Drill	ing	7.9	2	3.5
Drill Rig		CME 5	55		Soil Sampler:	2" OD S	plit Barrel	05/02/23	Before Casing R		6.1	2	8.8
Type:		ATV			Hammer Wt:	140 lbs.	1	05/02/23	After Casing Re		none noted		out
Rod Size		AWJ			Hammer Fall:	30 in.		05/02/23	After Casing Re				
Ttou Size			RORI	NC S	AMPLES	1	VI				DF MATERIA	I T	
	LO			110 57	AMII LES		V 1)	SUAL C	LASSIFICAT	HON	JI WIATEKIA	NL	1
Depth			Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
	Sample	(F		Sample	Sampler	Change		medium			% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		le - 10 to 2	20% / trace - 0 to 10°	%	RQD %
0	1A	0.0	0.5	SS/10	WH-1-WH-1				Matter (moist)				1
	1B	0.5	2.0				Brown SIL	T, trace C	CLAY, trace fine	e SAND	(moist, soft)		
1													
2	2	2.0	4.0	SS/21	3-3-3-3		Similar as	above (mo	ff)			6	
3						Similar as above (moist, medium stiff)							
4	3	4.0	6.0	SS/24	3-4-6-6		Similar as			10			
5													
6	4	6.0	8.0	SS/15	4-4-5-6		Similar as	above (we	et, stiff)				9
7													
8	5	8.0	10.0	SS/24	4-5-8-11		Similar as	above (we	et, stiff)				13
9													
10													
11													
12													
13		10.5	15.0	GG !15	4.2.2		G 75	OII	00.37				
14	6	13.5	15.0	SS/12	4-3-3	Grey/Brown SILT, trace mf SAND, trace CLAY (wet, medium stiff)							6
15													
16													
17													
10													
18 19	7	18.5	20.0	SS/6	7-10-12								22
19						compact)							

# Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-336

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

	Associates, Inc. Phone: 315-701-0522						TEST DOMING		Report No. 28062E	3-01-0523-R1
	LOG OF BORING SAMPLES						VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
<ul><li>20</li><li>21</li><li>22</li></ul>										
23 24	8	23.5	25.0	SS/10	17-13-17		Grey/Brown cmf SAND, compact)	some SILT, trace	mf GRAVEL (moist,	30
25 26										
27										
28 29	9	28.8	29.2	SS/5	100/5"		Grey cmf SAND, some m compact) <i>ROCK fragment</i> Bottom of Boring at 29.2'	of GRAVEL, trace ts, ROCK flour no	SILT (wet, very	100+
30										
32 33										
34										
35 36										
37 38										
39										
40 41										
42 43										
44										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		N/		6035 Cd	orporate Drive	SI	IBSURF	ACE EX	PI.	ORATION	Boring No.	В-	338
		IV			racuse, NY 13057			BORII			Page No.	1 (	of 2
	Asso	ciates	s, Inc.	Phone:	315-701-0522		1651	DUKI	16	LUG	Report No.	28062B-0	1-0523-R1
Project	Name:			us, Clay,	New York						Date Started	05/0	03/23
Client:		Rambo									Date Finished		03/23
Locatio	n:			n Locati					~~	0.000	Surface Elev.		4.4'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	TONS	
Driller:		C. O'H G. Ricl			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller: Inspecto		D.Mac		1	Casing Hammer: Other:			05/03/23		While Drilling	none noted	1	8.5
Drill Ri		CME 5		1	Soil Sampler:	2" OD S	Split Barrel	05/03/23		ore Casing Removed	none noted		3.5
Type:	<b>5</b> •	ATV			Hammer Wt:	140 lbs.	-	05/03/23		er Casing Removed	none noted		out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		05/03/23		er Casing Removed			
	LO	G OF	BORI	ING SA	AMPLES		VIS	SUAL C		SIFICATION C	F MATERIA	L	
Depth		Sample	Depth		Blows on		C -	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		little - 10 to 2	0% / trace - 0 to 100		RQD %
0	1A	0.0	0.5	SS/15	WH-1-2-3	<u></u>	Topsoil and						3
	1B	0.5	2.0				Brown SIL	T, trace n	nf SA	ND, trace ROOTS	(moist, soft)		
1													
		• •	4.0	2246									_
2	2	2.0	4.0	SS/16	2-2-3-3		Brown SIL	T, trace C	CLAY	, trace fine SAND	, (moist, mediur	n stiff)	5
2													
3													
4	3	4.0	6.0	SS/22	4-4-5-6		Similar as	ahove (mo	sict o	rtiff			9
4	3	4.0	0.0	33/22	4-4-3-0		Sillillai as	above (III	)1St, 8	suii)			9
5	1												
6	4	6.0	8.0	SS/16	4-3-3-4		Brown SIL	T. trace C	LAY	, trace fine SAND	(wet, medium s	stiff)	6
								,		,	,	,	
7													
8	5	8.0	10.0	SS/24	5-5-4-3		Grey SILT	, trace cm	f SA	ND, trace CLAY (1	moist, stiff)		9
9													
10	ŀ												
10													
11													
11													
12	6	12.0	15.0	SS/28	2-2-2		Grey SILT	, some CL	ΔΥ,	trace mf SAND (w	vet, medium stif	f)	4
							]		Ź				
13													
14													
1.7													
15													
16													
10													
17													
- '													
18						L	L						
	7	18.5	20.0	SS/18	10-27-45		Grey SILT	, trace cm	f SA	ND, trace mf GRA	VEL (moist, har	rd)	72
19													
2.0													
20							•						

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-338** Page No. 2 of 2 Report No. 28062B-01-0523-R1

	<b>Associates, Inc.</b> Phone: 315-701-0522						TEST BORENG		Report No. 28062	B-01-0523-R1
	LOG OF BORING SAMPLES						VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.	Sample (F From	Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
21										
22 23										
24	8	23.5	23.9	SS/5	100/5"		Grey cmf SAND, little cm compact)		SILT (wet, very	100+
25							Bottom of Boring at 23.9'			
26										
27										
28										
30										
31										
32										
33										
34										
35										
36										
37										
38										
40										
41										
42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

		M	E		orporate Drive racuse, NY 13057	SU	JBSURFA	ACE EX	PL	ORATION	Boring No. Page No.		340 of 2
	Asso	ciates	. Inc.		315-701-0522		TEST	BORI	NG ]	LOG	Report No.		01-0523-R1
Duniont					New York						Date Started		03/23
Project Client:	Name:	Rambo		us, Ciay,	New York						Date Started  Date Finished		03/23
Location				n Locati	au Dlau						Surface Elev.		03/23
Locatio	11:				INVESTIGATIO	N			CR	COUNDWATER			1.4
Driller:		C. O'H		DS OF	Casing:	3 ¼" ID	НСА		GIV	CONDWATER		10115	
Driller:		G. Ricl			Casing Hammer:	3 /4 ID	11.5.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto		o. rae	iui us		Other:			05/03/23		While Drilling	none noted	1	8.5
Drill Ri		CME 5	55		Soil Sampler:	2" OD S	Split Barrel	05/03/23		ore Casing Removed	3.8		2.5
Type:	<b>.</b>	ATV			Hammer Wt:	140 lbs.	-	05/03/23		er Casing Removed			
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		05/03/23		er Casing Removed			
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C		SIFICATION O	F MATERIA	L	
Depth			Depth		Blows on			coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 10°		RQD %
0	1A	0.0	0.5		WH-1-3-3		Topsoil and						4
	1B	0.5	2.0				Brown SIL	T, trace C	LAY	, trace mf SAND	(moist, medium	stiff)	]
1													
2	2	2.0	4.0	SS/14	2-3-2-2		Brown SIL	T, trace n	nf SA	ND, trace CLAY	(moist, medium	stiff)	5
3													
4	3	4.0	6.0	SS/24	3-4-5-7	Same as above (wet, stiff)							9
5													
6	4	6.0	8.0	SS/20	5-5-5-5		Same as ab	ove (wet,	stiff	)			10
7													
8	5	8.0	10.0	SS/21	4-5-6-5		Grey SILT	, trace find	e SA	ND (wet, stiff)			11
9													
10													
11							 						.
12													
13													
1.4	6	13.5	15.0	SS/24	3-1-2		Grey CLA	Y, trace S	ILT (	(wet, soft)			3
14													
15													
16													
17							<u> </u>						]
18													
19	7	18.5	20.0	SS/-	4-5-7		Grey mf G	RAVEL, s	some	cmf SAND, trace	SILT (wet, med	ium	12
	Į						1						

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-340

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

	Associates, Inc. Phone: 315-701-0522						TEST DOKING I		Report No. 28062	2B-01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLASS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
21										
22	8	22.5	22.9	SS/5	100/5"		Augered Hard at 22.4' Grey ROCK chips and frag	gments (wet)		100+
23							Bottom of Boring at 22.9'			
24										
26										
27										
28 29										
30										
31										
32 33										
34										
35										
36 37										
38										
39										
40										
41 42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

			E		orporate Drive	SI	J <b>BSURF</b>	ACE EX	<b>KPLORATION</b>	Boring No.		342
		IV			racuse, NY 13057				NG LOG	Page No.	1 (	of 1
	Asso	ciates	s, Inc.	Phone:	315-701-0522		IESI	DUKI	NG LUG	Report No.	28062B-0	01-0523-R1
Project N	Vame:	Micror	ı Camp	us, Clay,	, New York					Date Started	05/0	)4/23
Client:		Rambo	oll							Date Finished	05/0	)4/23
Location	•			on Locat	ion Plan					Surface Elev.		1.5'
Location	•				INVESTIGATIO	N			GROUNDWATER			1.5
Driller:		G. Ric		D5 O1	Casing:	3 ¼" ID	цсл		GROUNDWATER	ODSERVAI	10115	
Driller:		C. O'H			Casing Hammer:	3 /4 ID	11.5.A.	Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspector			ara cDough	o11	Other:			05/04/23	While Drilling	3.2		3.0
_		CME 5	_	iaii		211 OD 6	2124 D1	05/04/23		2.5		8.5
Drill Rig	į.		))		Soil Sampler:		Split Barrel		Before Casing Removed			
Type:		ATV			Hammer Wt:	140 lbs.		05/04/23	After Casing Removed	2.8	-	out
Rod Size		AWJ			Hammer Fall:	30 in.		05/04/23	After Casing Removed	caved @ 6.5		out
_	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFICATION (	)F MATERIA	\L	
Depth		Sample	e Depth	Type /	Blows on	Depth of	c -	coarse				SPT "N"
	Sample	(F	t.)	Sample	Sampler	Change		medium	and - 35 to 50	0% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine	little - 10 to 2	20% / trace - 0 to 10°	%	RQD %
0	1A	0.0	0.5	SS/17	WH-1-2-2		Topsoil an	d Organic	Matter (moist)			3
	1B	0.5	2.0				Brown SIL	T, trace C	CLAY, trace mf SAND	(moist, soft)		
1												
2	2	2.0	4.0	SS/22	3-5-5-4		Brown SIL	T, trace n	nf SAND, trace CLAY	(moist, stiff)		10
								,	,	, ,		
3												
4	3	4.0	6.0	SS/17	2-1-1-2		Brown SII	T trace (	CLAY, trace mf SAND	(wet_soft)		2
_	5	7.0	0.0	55/17	2-1-1-2		DIOWII SIL	71, trace C	DETT, trace in Stand	(wei, 301t)		
5												
3												
6	4	6.0	8.0	SS/24	3-4-4-5		Drown CII	T tropo (	CLAY (wet, stiff)			8
0	7	0.0	0.0	33/24	3-4-4-3		DIOWII SIL	i, nace C	LAT (wei, suiii)			0
7												
/												
8	5	8.0	10.0	SS/18	2-4-7-6		Carr CII T	1:4410 0000	fcand trace CLAV	mana fina CDAI	/IZI	11
0	3	8.0	10.0	55/16	2-4-7-0			, mue cm	f SAND, trace CLAY,	race line GRA v	CL	11
							(wet, stiff)					
9												
10	(	10.0	12.0	SS/18	2 2 2 2		C CII T	4 CI	A X/ (4 1'4'.60			4
10	6	10.0	12.0	55/18	3-2-2-3		Grey SIL1	, trace CL	LAY (wet, medium stiff)	)		4
1.1												
11					1							
10	7	10.0	140	00/24	33711 33711 33711 4		C 011 T	11441	CCAND 4 CLASS			
12	7	12.0	14.0	SS/24	WH-WH-WH-4		Grey SILT	, little cm	f SAND, trace CLAY (	wet, very soft)		0
1.0												
13												
	0	1 4 ^	160	66.70	5 10 0 5		<del> </del>	-;	ND AVEL 1991 CT 155		<del></del>	
14	8	14.0	16.0	SS/8	5-10-8-7			and mf G	GRAVEL, little CLAY,	trace cmf SANL	(wet,	18
					1		very stiff)					
15												
					1							
16												
17					1							
		l					<u> </u>				. — - —	
18	9	18.0	19.7	SS/14	5-63-100/2"		Black ROC	CK fragme	ents, trace cmf SAND, t	race SILT (wet)		100+
					1			_				
19							Auger refu					
							Bottom of	Boring at	19.8'			

	C	M	E		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	(PL	ORATION	Boring No.		344 of 2
	Acer	ciates	Inc	•	racuse, NY 13057		TEST	BORI	<b>NG</b>	LOG	Page No.		
					315-701-0522						Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		03/23
Client:		Rambo									Date Finished		03/23
Locatio	n:			on Locati					~~		Surface Elev.		05.8'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	TONS	
Driller:		C. O'H			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		G. Ric			Casing Hammer:								
Inspect			cDouga	.11	Other:			05/03/23		While Drilling	none noteed		3.5
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	05/03/23		ore Casing Removed	12.7		5.8
Type:		ATV			Hammer Wt:	140 lbs.		05/03/23		er Casing Removed	25.8	2	5.9
Rod Siz		AWJ			Hammer Fall:	30 in.		05/03/23		er Casing Removed			
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SSIFICATION C	OF MATERIA	<u>L</u>	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)	f	- fine		little - 10 to 2	0% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/18	WH-1-3-3		Topsoil and	d Organic	Mat	ter (moist)			4
	1B	0.5	2.0				Brown SIL	T, trace C	LAY	, trace mf SAND (	moist, medium	stiff)	
1											•	ŕ	
2	2	2.0	4.0	SS/16	3-2-2-4		Brown SIL	T, trace C	CLAY	(wet, medium stif	<b>(f)</b>		4
3													
4	3	4.0	6.0	SS/19	2-6-4-5		Same as ab	ove (wet,	stiff	)			10
5													
6	4	6.0	8.0	SS/24	2-6-5-4		Brown SIL	T, trace f	ine S	AND, trace CLAY	(moist, stiff)		11
7													
8	5	8.0	10.0	SS/16	4-1-4-8		Grey SILT	, trace fin	e SA	ND (wet, medium	stiff)		5
9													
- 10													
10													
11													
10													
12													
12													
13	6	12.5	15.0	SS/17	WH-2-4		Drown f	CAND 4	000 5	III T troop for CP	AVEL (w/st 1		
1.4	6	13.5	15.0	35/1/	W f1-∠-4		Drown mf	SAND, II	ace S	SILT, trace fine GR	AVEL (Wet, 100	ose)	6
14													
15	1												
13													
16													
10													
17													
1 '													
18													
	7	18.5	20.0	SS/19	9-5-4		Same as ab	ove (wet	loos	e)			9
19	'	- 3.0											
20	1			l			I						

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-344** Page No. 2 of 2 Report No. 28062B-01-0523-R1

	<b>Associates, Inc.</b> Phone: 315-701-0522						TEST BORE (G)		Report No. 28062	B-01-0523-R1
LOG OF BORING SAMPLES							VISUAL CLAS	SIFICATION (	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20				. ,						
21										
22										
23										
	8	23.5	25.0	SS/14	23-28-50		Grey mf GRAVEL and cr	mf SAND, trace SI	LT (wet, very	78
24							compact)			
25	]									
26										
27										
28							<b> </b> 			_
29	9	28.5	28.6	SS/1	100/1"		Grey ROCK chips and fra			100+
30							Bottom of Boring at 28.6'			
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	F		orporate Drive	SU	J <b>BSURF</b>	ACE EX	PL	ORATION	Boring No.		346
	Assr	rciates	, Inc.		racuse, NY 13057 315-701-0522		TEST	BORI	NG	LOG	Page No.		of 2
				I momer							Report No.		01-0523-R1
Project	Name:			us, Clay,	, New York						Date Started		28/23
Client:		Rambo									Date Finished		28/23
Location	n:			n Locat		<b>3</b> 7			<u> </u>	O LINID III A TEED	Surface Elev.		3.9'
				DS OF	INVESTIGATIO			-	Gŀ	ROUNDWATER	OBSERVAT	TONS	
Driller:		G. Ricl			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Driller:		C. O'H			Casing Hammer:							_	
Inspecto			rma, E.	I.T.	Other:			04/27/23		While Drilling		e noted	
Drill Ri	g:	CME 5	55		Soil Sampler:		plit Barrel	04/28/23		ore Casing Removed	19.1		1.7
Type:		ATV			Hammer Wt:	140 lbs.		04/28/23		er Casing Removed	4.2		out
Rod Siz		AWJ			Hammer Fall:	30 in.		04/28/23		er Casing Removed	caved @ 4.5		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SIFICATION (	OF MATERIA	L	
Depth		Sample	Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change	m -	medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		little - 10 to 2	20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/15	WH-WH-2-2	l	Topsoil (m						2
	1B	0.5	2.0				Brown SIL	T, trace fi	ne S	AND, trace CLAY	(moist, soft)		
1													
2	2	2.0	4.0	SS/18	3-3-3-3		Brown SIL	T, trace C	LAY	(moist, medium s	tiff)		6
3													
4	3	4.0	6.0	SS/24	3-2-3-4	Same as above (wet, medium stiff)							5
5													
6	4	6.0	8.0	SS/14	6-6-5-6		Same as ab	ove (wet,	stiff	)			11
7													
8	5	8.0	10.0	SS/24	5-7-6-6		Brown SIL	T, trace C	LAY	, trace fine SAND	(wet, stiff)		13
9													
10													
11					1								
12					1								
13							<u> </u>						] ]
	6	13.5	15.0	SS/15	8-7-5			SAND, so	me S	ILT, trace mf GRA	VEL (wet, med	ium	12
14							compact)						
15					1								
16													
					1								
17													
18					1								
	7	18.5	20.0	SS/4	12-13-13	Grey SILT and mf GRAVEL, some cmf SAND (wet, very stiff)						26	
19													

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-346

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

	<b>Associates, Inc.</b> Phone: 315-701-0522						TEST DOMING		Report No. 28062	B-01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES		VISUAL CLAS	SIFICATION O	OF MATERIAL	
Depth Scale (Feet)	Sample No.		Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20							Augered hard at 21.3'			
21	8	21.7	21.7		100/0"		ROCK chips and fragmen	ets in tin of spoon		100+
22							Bottom of Boring at 21.7'	is in the of the time		
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	E		orporate Drive	SU			XPLORATION	Boring No. Page No.		347 of 2	
	Asso	ciates	, Inc.	•	315-701-0522		TEST	RORI	NG LOG	Report No.		01-0523-R1	
Project N	Vame:	Micror	Camp		, New York					Date Started		28/23	
Client:	· · · · · · · · · · · · · · · · · · ·	Rambo		us, ciuj,	, riew ronk					Date Finished		28/23	
Location				on Locati	ion Dlan					Surface Elev.		01.7'	
Location	•				'INVESTIGATIO	N			GROUNDWATE			/1./	
Driller:		G. Ricl		DS OF		3 ¼" ID	II C A		GROUNDWAIL	T ODSEKVA I	IONS		
		C. O'H			Casing:	3 ¼" ID	н.5.А.	Date	Time	Depth (Ft.)	Casing	At (Ft.)	
Driller:				T TT	Casing Hammer:			04/20/22	MA .1 D .11.		4 1		
Inspector		A. Sha		1.1.	Other:			04/28/23	While Drilling		e noted		
Drill Rig		CME 5	55		Soil Sampler:		Split Barrel	04/28/23	Before Casing Removed			8.5	
Type:		ATV			Hammer Wt:	140 lbs.		04/28/23	After Casing Removed			out	
Rod Size		AWJ			Hammer Fall:	30 in.		04/28/23	After Casing Removed			out	
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LASSIFICATION	OF MATERIA	<b>\L</b>		
Depth		Sample	Depth		Blows on		C -	- coarse				SPT "N"	
	Sample	(F		Type / Sample	Sampler	Depth of Change		medium	and - 35 to 4	50% / some - 20 to 35	0/0	or	
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine		20% / trace - 0 to 10		RQD %	
0	1A	0.0	0.5	SS/13		(2 0.)			Matter (moist)		-	3	
	1B	0.5	2.0	25/13	,,,11 1 2-4				ine SAND, trace CLA	V (moist soft)			
1	ID	0.5	2.0										
1													
	2	2.0	4.0	00/14	5.6.6.7		G: '1	1 (	4.00			12	
2	2	2.0	4.0	SS/14	5-6-6-7	Similar as above (wet, stiff)							
_													
3													
4	3A	4.0	5.0	SS/24	2-8-11-12		Grey mf G	RAVEL a	and ROCK fragments,	trace cmf SAND	(wet,	19	
							medium co	mpact)					
5	3B	5.0	6.0				Brown SIL	T, trace C	CLAY (wet, very stiff)				
									, , ,				
6	4	6.0	8.0	SS/17	5-11-14-14		Same as ab	ove (moi	st, very stiff)			25	
	-		0.0					(	,,,				
7													
, I													
8	5	8.0	10.0	SS/14	4-8-4-5		Drown CII	T 1;#10 C	CLAY, trace fine SANI	(majet stiff)		12	
0	3	8.0	10.0	33/14	4-0-4-3		DIOWII SIL	11, IIIIE C	LAI, HACE IIIE SAINI	) (IIIOISI, SIIII)		12	
9													
1.0													
10													
11													
12													
13													
	6	13.5	15.0	SS/15	1-1-2		Grey SILT	, trace CL	AY (moist, soft)			3	
14								*	, ,				
15													
1.5													
16													
10													
1													
17													
18													
	7	18.5	20.0	SS/14	5-8-6		Grey SILT	, trace fin	e GRAVEL, trace CLA	AY (moist, stiff)		14	
19													

# Associates, Inc. Phone: 315-701-0522

6035 Corporate Drive East Syracuse, NY 13057

#### SUBSURFACE EXPLORATION **TEST BORING LOG**

Boring No. **B-347** Page No. 2 of 2 Report No. 28062B-01-0523-R1

LOG OF BORING SAMPLES VISUAL CLASSIFICATION OF MATERIAL Sample Depth SPT "N" Depth Blows on c - coarse Depth of Type / (Ft.) Scale Sample Sampler m - medium and - 35 to 50% / some - 20 to 35% Sample Change or (Feet) No. From To Rec. (in.) Per 6 Inches (Ft.) f - fine little - 10 to 20% / trace - 0 to 10% RQD % 20 21 22 23 8 23.5 25.0 SS/8 WH-WH-1 Grey SILT, trace cmf SAND, trace fine GRAVEL (wet, very soft) 1 24 25 26 27 28 9 Grey ROCK chips, fragments & flour (wet) 28.5 29.2 78-100/2" 100 +29 Auger refusal at 29.6' Bottom of Boring at 29.6' 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E	East Sy	orporate Drive racuse, NY 13057	SU				LOCATION	Boring No. Page No.		352 of 2
	Ass	ociate	s, Inc.	•	315-701-0522		TEST	r BORII	NG	LOG	Report No.		
Project	Name:	Micror	ı Camp		, New York						Date Started		04/23
Client:		Rambo		, ciuy,	,						Date Finished		04/23
Location	n•			on Locat	ion Plan						Surface Elev.		8.7'
Location					'INVESTIGATIO	N		1	C	ROUNDWATER			0.7
Driller:		G. Ric		DO OF	Casing:	3 ¼" ID	нсл		<u> </u>	ROUNDWALLN	ODSERVAL	10110	
Driller:		C. O'H			Casing Hammer:	3 /4 ID	11.3.A.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
Inspecto			ara cDough	all	Other:			05/04/23		While Drilling	none noted	1	8.5
Drill Ri		CME 5	_	iaii	Soil Sampler:	2" OD 9	Split Barrel	05/04/23		fore Casing Removed	2.5		8.5
Type:	g.	ATV	) )		Hammer Wt:	140 lbs.	-	05/04/23		fter Casing Removed	none noted		out
Rod Siz	۵•	AWJ			Hammer Fall:	30 in.		05/04/23		fter Casing Removed	Hone Hoted		out
Kou Siz			DAD	INC C	AMPLES	30 III.	1/1			SSIFICATION (	YE MATEDIA	Т	
	LU	I		111G 3/	AIVIELES	1	VI	SUAL C	LA	SSIFICATION (	JI WIA I EKIA	LL .	1
Depth		_	e Depth	Type /	Blows on	Depth of		- coarse		1			SPT "N"
Scale	Sample		t.)	Sample	Sampler	Change		medium			0% / some - 20 to 35		or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109	<b>%</b>	RQD %
0	1A	0.0	0.5	SS/17	WH-WH-2-3					ntter (moist)			2
	1B	0.5	2.0		1				nf S	AND, trace CLAY	(moist, soft)		
1							PP=1.5, 1.	25, 1.25					
2	2	2.0	4.0	SS/22	3-5-6-4		Brown SIL	T, little m	nf S.	AND, trace CLAY (	moist, stiff)		11
					1								
3					1								
4	3	4.0	6.0	SS/19	3-3-2-4		Brown SIL	T, little m	nf S.	AND, trace CLAY (	wet, medium sti	ff)	5
										·		-	
5					1								
6	4	6.0	8.0	SS/19	4-3-3-4		Same as ab	ove (wet,	me	dium stiff)			6
					1					•			
7													
					1								
8	5	8.0	10.0	SS/22	3-5-5-5		Brown SIL	T, trace n	nf S	AND (wet, stiff)			10
					1								
9													
					1								
10													
11					1								
12													
13													
_	6	13.5	15.0	SS/20	2-2-2-2		Grey CLA	Y, some S	SILT	(wet, medium stiff	)		4
14				0			]	, ~		, ,	,		
					1								
15													
16													
10													
17													
1 /													
18													
10	7	18.5	20.0	SS/16	WH-WH-6		Grev SII T	little mf	GR	AVEL, little cmf SA	ND trace CLA	V (wet	6
19	,	10.5	20.0	55/10	**11- **11-U		medium sti		JI	zivee, nuic ciii se	, nace CLA	ı (wei	
19							incurum su	111)					
20													

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod PP=Pocket Penetrameter Results in tsf

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-352

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

	<b>Associates, Inc.</b> Phone: 315-701-0522						Report No. 28062B-01-				
	LO	G OF	BOR	ING SA	AMPLES	VISUAL CLASSIFICATION OF MATERIAL					
Depth Scale (Feet)	Sample No.		e Depth (t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35° 20% / trace - 0 to 10°	%	SPT "N" or RQD %
20											
21											
22											
23											
24	8	23.5	24.4	SS/9	60-100/3"		Grey ROCK fragments, li (wet)	ttle cmf GRAVEL	, trace cmf SAN	ID	100+
25							Auger refusal at 24.4' Bottom of Boring at 24.4'				
26							Bottom of Boring at 24.4'				
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
39											
40	1										
41											
42											
43											
44											
45	1										

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	M	F		orporate Drive	SU	J <b>BSURF</b> A	ACE EX	KPL	ORATION	Boring No.		390
	Acc	ciates	Inc	-	racuse, NY 13057		TEST	BORI	NG	LOG	Page No.		of 2
	201 100 101			I moner.	315-701-0522						Report No.		01-0523-R1
Project	Name:			us, Clay,	New York						Date Started		02/23
Client:		Rambo									Date Finished		)2/23
Locatio	n:			on Locati			1	1			Surface Elev.		2.8'
				DS OF	INVESTIGATIO				GF	ROUNDWATER	OBSERVAT	IONS	
Driller:		G. Ric			Casing:	3 ¼" ID	H.S.A.	Date		Time	Depth (Ft.)	Casina	At (Ft.)
Driller:		C. O'H	ara		Casing Hammer:							·	` ′
Inspect	or:				Other:			05/02/23		While Drilling	8.9	1.	3.5
Drill Ri	g:	CME 5	55		Soil Sampler:		Split Barrel	05/02/23		ore Casing Removed	12.1	2.	3.4
Type:		ATV			Hammer Wt:	140 lbs.		05/02/23		er Casing Removed	none noted	C	out
Rod Siz	e:	AWJ			Hammer Fall:	30 in.		05/02/23		er Casing Removed	caved @		out
	LO	G OF	BOR	ING SA	AMPLES		VIS	SUAL C	LAS	SSIFICATION C	F MATERIA	L	
Depth		Sample	Depth		Blows on		0	coarse					SPT "N"
Scale	Sample	(F		Type / Sample	Sampler	Depth of Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	То	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109		RQD %
0	1A	0.0	0.5	SS/14	WH-1-1-2	(- 1.)	Topsoil and		Mat			-	2
	1B	0.5	2.0							AND, trace ORGAN	VIC Material		1 - 1
1	1.5	0.5	2.0				(moist, soft		in 51	n vD, uuce onorn	VIC Material		
1							(1110131, 301)	.,					
2	2	2.0	4.0	SS/15	3-4-3-4		Brown SII	T trace n	of S A	AND, trace CLAY	(moist medium	ctiff	7
		2.0	7.0	55/15	3-4-3-4		Brown SiL	i, trace ii	ın 57	ind, trace CLAT	(moist, medium	suii)	, I
3													
3													
4	3	4.0	6.0	SS/24	4-5-6-6		Dearyn CII	T + + + + + + + + + + + + + + + + + + +	of C A	AND, trace CLAY,	tropa POOTS (s	maist	11
+	3	4.0	0.0	33/24	4-3-0-0		stiff)	i, mace n	III 3F	IND, Hace CLAI,	uace KOO15 (I	moist,	11
5	ł						Sull)						
3													
6	1	6.0	8.0	SS/19	4-4-6-5		Danarra CII	T +======	-£ C /	ND tropp CLAV	(majet etiff)		10
6	4	0.0	8.0	33/19	4-4-0-3		Brown SIL	i, trace n	111 SF	AND, trace CLAY	(moist, stiff)		10
7													
8	5	8.0	10.0	SS/24	5-8-8-7		Similar as	obovo (m	st 1/0	my atiff)			16
0	3	0.0	10.0	33/24	3-0-0-7		Sillillai as	above (we	i, ve	ry suir)			10
9													
9													
10	ł												
10													
11													
11													
12													
12													
13													
13	6A	13.5	14.5	SS/18	3-1-3		Similar soi	l as above	(we	t, medium stiff)			4
14	6B	14.5	15.0	55/10	J-1-J					T, little mf GRAV	EL trace CLAV	(wet	
1-7	0.0	17.5	15.0				loose)	and and	+ VIL	, nulo ini OKA V.	LL, HACC CLAT	( ,,,	
15	1						10030)						
13													
16													
10													
17													
1 /													
18													
10	7	18.5	20.0	SS/10	6-10-6		Dark Gray	cmf SAN	D 1	ttle SILT, little mf	GRAVEI (wat	medium	16
19	′	10.5	20.0	33/10	0-10-0		compact)	ciii SAN	וו ,עו	me oili, iille iill	ONA VEL (WEI,	meanum	10
17							compact)						
20	ł	I				1							

### CVE Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

Boring No. B-390
Page No. 2 of 2
Report No. 28062B-01-0523-R1

					315-701-0522	<u> </u>	TEST DOKING I		Report No. 2806	2B-01-0523-R1
	LO	G OF	BOR	ING SA	AMPLES	VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.		Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine	and - 35 to 50 little - 10 to 2	0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %
20										
21										
22										
23	8	23.4	23.6	SS/1	100/2"		Grey ROCK chips & fragr Bottom of Boring at 23.6'	ments (wet)		—· ₁₀₀₊
24							Bottom of Boring at 23.6'			
25	1									
26										
27										
28										
29										
30	1									
31										
32										
33										
34										
35	-									
36										
37										
38										
39										
40	1									
41										
42										
43										
44										
45	1									

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod

	C	V	E		orporate Drive racuse, NY 13057	SU				ORATION	Boring No. Page No.		392 of 2
	Asso	ciates	, Inc.	•	315-701-0522		TEST	BORI	<b>NG</b>	LOG	Report No.		01-0523-R1
Project				1 mone.	New York						Date Started		27/23
Client:	ivaine.	Rambo		us, Ciay,	New Tolk						Date Started  Date Finished		28/23
Location				on Locati	an Dian						Surface Elev.		3.5'
Locatio	n:				INVESTIGATIO	NI			CI	ROUNDWATER			3.3
Driller:		G. Rich		DS OF		3 ¼" ID	TI C A		Gr	KOUNDWAIER	OBSERVAI	IUNS	
Driller:		C. O'H			Casing Hamman	3 /4 ID	п.з.А.	Date		Time	Depth (Ft.)	Casing	At (Ft.)
				IТ	Casing Hammer: Other:			04/27/23		While Duilling	1.2	11	3.5
Inspecto Drill Ri		CME 5	rma, E.	1.1.	Soil Sampler:	2" OD 6	Inlit Domal	04/27/23	Dafe	While Drilling ore Casing Removed	5.4		3.5
	g:	ATV	))		Hammer Wt:	2 OD S	Split Barrel	04/28/23		•	3.4		
Type: Rod Siz		AUJ			Hammer Fall:	30 in.		04/28/23		er Casing Removed			out
Rou Siz			DOD	ING C		30 III.	X/T/			er Casing Removed	caved @ 6.5		out
	LO			ING SA	AMPLES		VIX	SUAL C	LAS	SIFICATION C	JF MIATERIA	L	
Depth			Depth	Type /	Blows on	Depth of	c -	coarse					SPT "N"
Scale	Sample	(F	t.)	Sample	Sampler	Change		medium		and - 35 to 50	% / some - 20 to 35	%	or
(Feet)	No.	From	To	Rec. (in.)	Per 6 Inches	(Ft.)		- fine			20% / trace - 0 to 109	%	RQD %
0	1A	0.0	0.5	SS/11	WH-WH-2-2	<u> </u>	Topsoil and	-					2
	1B	0.5	2.0				Brown SIL	T, trace f	ine S	AND, trace CLAY	(moist, soft)		
1													
2	2	2.0	4.0	SS/20	4-4-3-4		Brown SIL	T, trace C	CLAY	(wet, medium stif	ff)		7
3													
4	3	4.0	6.0	SS/24	2-2-11-10		Brown SIL	T, some o	mf S	AND, trace CLAY	(wet, stiff)		13
5	]												
6	4	6.0	8.0	SS/24	4-4-4		Brown SIL	T, trace C	CLAY	(wet, stiff)			8
7													
8	5	8.0	10.0	SS/24	2-2-2-2		Grey/Brow	n SILT aı	nd CI	LAY (wet, medium	stiff)		4
9													
10													
11													
12													
13	_				,		<u> </u>						_
	6	13.5	15.0	SS/13	11-11-9					and cmf SAND, t	race SILT, trace	ROCK	20
14							fragments	(wet, med	ium (	compact)			
15													
16													
17													
4.5													
18	_				4			0 ==		4			
10	7	18.5	20.0	SS/18	17-51-61					little cmf SAND, t	trace SILT, trace	e ROCK	112
19							fragments			pact)			
20							Augered ho	ard at 22.	4'				

### CME Associates, Inc.

6035 Corporate Drive East Syracuse, NY 13057

## SUBSURFACE EXPLORATION TEST BORING LOG

 Boring No.
 B-392

 Page No.
 2 of 2

 Report No.
 28062B-01-0523-R1

	<b>Associates, Inc.</b> Phone: 315-701-0522						Report No. 28062B-01-0				
	LOG OF BORING SAMPLES						VISUAL CLASSIFICATION OF MATERIAL				
Depth Scale (Feet)	Sample No.		Depth t.)	Type / Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35% 20% / trace - 0 to 10%	SPT "N" or RQD %	
20 21											
22											
23	8	23.5	24.0	SS/6	100/6"		Grey ROCK chips, fragme	ents & flour (wet)		100+	
24	Ü	20.0	20	55,0	100/0		Bottom of Boring at 24.0'				
25 26											
27											
28											
29											
30											
32											
33											
34											
35											
36 37											
38											
39											
40											
41 42											
43											
44											
45											

SS - Split Spoon, U - Undisturbed Tube, C - Core, WH - Weight of Hammer + Rod, WR - Weight of Rod



#### GENERAL INFORMATION & KEY TO TEST BORING LOGS

The **Subsurface Exploration** – **Test Boring Logs** produced **by CME Associates, Inc.** (CME) present observations and mechanical data collected by the CME Drill Crew while at the site, supplemented, at times, by classification of the materials removed from the borings determined through visual identification by technicians in the laboratory. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Exploration Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the proposed construction. The evaluation must consider all the recorded details and their significance relative to each other. Often, analyses of standard boring data indicate the need for additional testing and sampling procedures to more accurately evaluate the subsurface conditions. Any evaluations of the contents of CME's report and the recovered samples must be performed by Licensed Professionals having experience in Soil Mechanics, Geological Sciences and Geotechnical Engineering. The information presented in this Key defines some of the methods, procedures and terms used on the CME Exploration Logs to describe the conditions encountered. Refer to the Log on page 4 for key number.

Key No. Description

- 1. The figures in the **DEPTH SCALE** column define the vertical scale of the Boring Log.
- 2. The SAMPLE NO. is used for identification on the sample containers and in the Laboratory Test Report or Summary.
- 3. The SAMPLE DEPTH column gives the depth range from which a sample was recovered.
- 4. The TYPE / SAMPLE RECOVERY column is used to signify the various types of samples. "SS is Split Spoon, "U" is Undisturbed Tube, and "C" is Rock Core. For soil and rock samples, the recovered length of the sample is recorded in inches.
- 5. BLOWS ON SAMPLER This column shows the results of the "Standard Penetration Test (SPT) ASTM D1586", recording the number of blows required to drive a 2-inch outside diameter (O.D.) split spoon sampler into the ground beneath the casing. The number of blows required for each six inches of penetration is recorded. The total number of blows required for the 6-inch to 18-inch interval is summarized in the SPT "N" column and represents the "Standard Penetration Number". The outside diameter of the sampler, the hammer weight and the length of drop are noted in the Methods of Investigation portion of the log. A "WH" or "WR" in this column indicates that the sample spoon advanced a 6-inch interval under the Weight of Hammer + Rod or Weight of Rod, respectively. If a rock core sample is taken, the core bit size designation is given here.
- 6. The **DEPTH OF CHANGE** column designates the depth (in feet) that the driller noted a compactness or stratum change. In soft materials or soil strata exhibiting a consistent relative density, it is difficult for the driller to determine the exact change from one stratum to the next. In addition, a grading or gradual change may exist. In such cases the depth noted is approximate or estimated only and may be represented by a dashed line. When continuous split spoon sampling is not employed, or an interval of several feet exists between samplings, the Depth of Change may not be indicated at all.
- 7. VISUAL CLASSIFICATION OF MATERIAL Soil materials sampled and recovered are described by the Driller or Geotechnical Representative on the original field log. Notes of the Drillers observations are also placed in this column. Recovered samples may also be visually classified by a Geologist, Engineer, or Soil Technician. Visual soil classifications are made using a modified Burmister System as practiced by CME and as generally described in this Key and abbreviated on the Test Boring Log. This modified Burmister System is a type of visual-manual textural classification estimated by the Driller, Geologist, Engineer, or Technician on the basis of weight-fraction of the recovered material and estimated plasticity, among other characteristics. See Table 1 "Classification of Materials". The description of the relative compactness or consistency is based upon the standard penetration number as defined in Table 2. The description of the recovered sample moisture condition is described as dry, moist, wet, or saturated. Water used to advance the boring may affect the moisture content of the recovered sample. Special terms may be used to describe recovered materials in greater detail, such terms are listed in ASTM D653. When sampling gravelly soils with a standard two-inch O.D. Split Spoon, the true percentage of gravel is often not recovered due to the relatively small sampler diameter. The presence of boulders, cobbles, and large gravel is sometimes, but not necessarily, detected by observation of the casing advancement and sampler blows and/or through the "action" of the drill rig, sampler and/or casing as reported by the Driller.

The description of **Rock** is based upon the recovered rock core. Terms frequently used in the description are included in Tables 3, 4 and 5. The length of core run is defined as length of penetration between retrievals of the core barrel from the bore hole, expressed in inches. The core recovery expresses the length of core recovered from the core barrel per core run, in percent. The size core barrel used is noted in Column 5. An "N" size core, being larger in diameter than "A" size core, often produces better recovery, and is frequently utilized where accurate information regarding the geologic conditions and engineering properties is needed. An estimate of in-situ rock quality is provided by a modified core recovery ratio known as the "**Rock Quality Designation**" (**RQD**). This ratio is determined by considering only pieces of core that are at least 4 inches long and are hard and sound. Breaks obviously caused by drilling are ignored. The percentage ratio between the total length of such core recovered and the length of core drilled on a given run is the RQD. Table 4 indicates in-situ rock quality as related to the **RQD**.

Page 1 of 4 KEY 112619



- 8. The SPT "N" or RQD is given in this column as applicable to the specific sample taken. In Very Compact coarse-grained soils and in Hard fine-grained soils the N-value may be indicated as 50+ or 100+. This typically means that the blow count was achieved prior to driving the sampler the entire 6-inch interval or the sampler refused further penetration. For an "N" size rock core, the RQD is reported here, expressed in percent (%).
- 9. GROUNDWATER OBSERVATIONS and timing noted by the Drill Crew are shown in this section. It is important to realize that the reliability of the water level observations depend upon the soil type (e.g. water does not readily stabilize in a hole through fine grained soils), and that drill water used to advance the boring may have influenced the observations. Groundwater levels typically fluctuate seasonally so those noted on the log are only representative of that exhibited during the period of time noted on the log. One or more perched or trapped water levels may exist in the ground seasonally. All the available resources and data should be evaluated. If definite conclusions cannot be made, it is often prudent to examine the conditions more thoroughly through test pit excavations or through groundwater observation well installations.
- 10. METHODS of INVESTIGATION provides pertinent information regarding the identity of the Drill Crew members, inspector (if any), drill rig make and model, drill rig mount vehicle, casing and type of advancement, soil and rock sampling tools and appurtenances used in the installation of the Test Boring.

Т	ABLE 1 - CLASSIFICATION OF MATERIALS
GROUP	COARSE GRAINED SOILS TEXTURAL SIZES
BOULDERS	larger than 12" diameter
COBBLES	12" diameter to 3" sieve
GRAVEL	3" - coarse - 1" - medium - 1/2" - fine - #4 sieve
SAND	#4 - coarse - #10 - medium - #40 - fine - #200 sieve
GROUP	FINE GRAINED SOILS SIZE (PLASTICITY*)
SILT	#200 sieve (0.074mm) to 0.005mm size (see below *)
CLAY	0.005mm size to 0.001 mm size (see below *)
GROUP	ORGANIC SOILS, PEAT, MUCK, MARL
ORGANIC	Based on smell, visual-manual and laboratory testing

ABBREVIATIONS	TERM	ESTIMATED PERCENT OF TOTAL SAMPLE BY WEIGHT
<b>f</b> - fine	and	35 to 50%
<b>m</b> - medium	some	20 to 35%
c - coarse	little	10 to 20%
	trace	0 to 10%

		DRY STRENGTH TEST			
TERM	PLASTICITY INDEX	INDICATION	FIELD TEST RESULT		
non-plastic	0 - 3	Very low	falls apart easily		
slightly plastic	4 - 15	Slight	easily crushed by fingers		
plastic	15 - 30	Medium	difficult to crush		
highly plastic	31 or more	High	impossible to crush with fingers		

Page 2 of 4 KEY 112619



Primary Soil Type	Descriptive Term of Compactness	Range of Standard Penetration Resistance (N)
COARSE GRAINED SOILS	Very Loose	less than 4 blows per foot
	Loose	4 to 10
(More than half of Material	Medium Compact	10 to 30
is larger than No. 200 sieve size)	Compact	30 to 50
	Very Compact	Greater than 50
FINE GRAINED SOILS	Descriptive Term of Consistency	Range of Standard Penetratio Resistance (N)
	Very Soft	less than 2 blows per foot
(More than half of material is	Soft	2 to 4
smaller than No. 200 sieve size)	Medium Stiff	4 to 8
,	Stiff	8 to 15
	Very Stiff	15 to 30
	Hard	Greater than 30

^{*}The number of blows of 140-pound weight falling 30 inches to drive a 2-inch O.D., 1-3/8 inch I.D. sampler 12 inches is defined as the Standard Penetration Resistance, designated "N".

	TABLE 3 - ROCK (	CLASSIFICATION TERMS		
Rock Classification	n Terms	Field Test or Meaning of Term		
Hardness	Soft	Scratched by fingernail. Crumbles under firm blows with a geologic pick.		
		Shallow indentations (1 to 3 mm) can be made by firm blows of a geologic pick. Can be peeled with a pocketknife with difficulty.		
	Medium Hard	Scratched distinctly by penknife or steel nail. Can't be peeled or scraped with triife.		
		Scratched with difficulty by penknife or steel nail. Requires more than one blow with a geologic hammer to break it		
		Cannot be scratched by penknife or steel nail. Breaks only by repeated heavy blows with a geologic hammer.		
Bedding	Thinly Laminated Laminated	less than 1/8 th inch 1/8 th to 1 inch		
(Divisional planes	Thinly Bedded	1 inch to 4 inches		
and/or surfaces	Medium Bedded	4 inches to 12 inches		
separating it from layers	Thickly Bedded	12 inches to 48 inches		
above and below)	Massive	greater than 48 inches		

Relation of Ro	TABLE 4 Relation of Rock Quality Designation (RQD) and in-situ Rock Quality						
RQD %	Rock Quality Term Used						
90 to 100	Excellent						
75 to 90	Good						
50 to 75	Fair						
25 to 50	Poor						
0 to 25	Very Poor						

Page 3 of 4 KEY 112619



TABLE 5 – BEDROCK WEATHERING CLASSIFICATION							
Classification	Diagnostic Features						
Fresh	No visible sign of decomposition or discoloration. Rings under hammer impact.						
Slightly Weathered	Slight discoloration inwards from open fractures, otherwise similar to Fresh.						
Moderately Weathered	Discoloration throughout. Strength somewhat less than fresh rock but cores cannot be broken by hand or scraped with knife. Texture observed.						
Highly Weathered	Most minerals somewhat decomposed. Specimens can be broken by hand with effort or shaved with knife. Core stones present in rock mass. Texture becoming indistinct but fabric preserved.						
Completely Weathered	Minerals decomposed to soil, but fabric and structure preserved (e.g. Saprolite). Specimens easily crumbled or penetrated.						
Residual Soil	Advanced state of decomposition resulting in plastic soils. Rock fabric and structure completely destroyed. Large volume change.						

课 C	6035 Corporate Drive East Syracuse, NY 13057					SUBSURFACE EXPLORATION TEST BORING LOG			Boring No. B-Page No. 1 of	
ASSOCIATES, Inc. Phone: 315-701-0522								Report No.		
Project Name:								Date Started		
Client:	4							Date Finished		
Location:				January 1				Surface Elev.		
METHODS OF INVESTIGATION GROUNDWA							GROUNDWATER	R OBSERVAT	IONS	
Driller: Driller:	10			Casing: Casing Hammer:	10	Date	Time	Depth (Ft.)	Casing	At (Ft.)
Inspector:			C	ther:			While Drilling	9	9	
Drill Rig: Soil Sampler: Type: Hammer Wt:					- 111	Before Casing Removed				
						111	After Casing Removed			
Rod Size:		Hammer Fall:					After Casing Removed			
LO	GOF	BOR	ING SAI	MPLES		VISUAL C	CLASSIFICATION (	OF MATERIA	L	
Depth Scale Sample (Feet) No.	Sample (Ft From		Type/ Sample Rec. (in.)	Blows on Sampler Per 6 Inches	Depth of Change (Ft.)	c - coarse m - medium f - fine		0% / some - 20 to 35' 20% / trace - 0 to 10'	6 or	SPT "N" or RQD%
1 2	3	3	4	5	6	5 approx 2 10 miles 2	7			8
									5	

Page 4 of 4 KEY 112619